

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

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Million-Dollar Biker Hits Racine



Steve Roberts, N4RVE, the famous biker/ham (foreground, in shorts), rolled into Racine in August, and soon had a crowd looking at his monster bike when he stopped on 18th Street. His not-very-light bike has just about every electronic convenience you can imagine, including 2-meters, CD-ROM navigation libraries, a computer with a modem, a cellular telephone, a large box on wheels with his stuff, probably some handy tools, and solar battery-recharging panels on top. It's one of those things that must be seen to be believed! No wonder he had a troubled knee - who wouldn't - from pedalling this contraption across the country. Pictured with Steve in this photo, behind Steve, are, left to right: Britt-Marle Moxness (wife of Arne, KA9ZPY); Cheryl Miller, WS9P; Cheryl's husband; and two sponsors. There's more about the bike - and the biker - on page 17 of this issue.

- Photo and story by Arne Moxness/KA9ZPY

FCC Clarifies Position on "Business Communications"

A recent story in the *W5YI Report* has created some comment in the amateur community. The story - which the editor had every reason to believe was accurate - was to the effect that Private Radio Bureau Chief Ralph Haller had spoken at the ARRL National Convention in Saginaw, Michigan in July about revisions to FCC Rules Part 97.113 and about negotiations with the ARRL.

These discussions, the story averred, led Haller to conclude that the Amateur Radio Service has "excess capacity." The newsletter took that reference to mean that the Service has more, or larger, frequency allocations than it needs in order to do routine amateur-to-amateur communications.

Amateurs could put that excess capacity to good use, the story said, after revision of Part 97.113, by handling messages now transmitted on crowded business, industrial, maritime and common carrier frequencies. This conclusion made it appear that the ARRL wanted amateurs to have the ability to legally do communications which could lead to commercial users making claims on our frequency allocations (by inferring that amateurs were using "excess" frequencies for such work).

ARRL directors and other ARRL volunteers attending the FCC Forum at the National Convention heard Haller speak, but never heard the phrase, "excess capacity." Why not? The FCC staff draft containing these words (but not delivered by Haller

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ELMER

By Rich Regent, K9GDF



Swapfests and Other Social Events

SUNDAY, NOVEMBER 3, 1991. The FOXCITIES HAMFEST 91, will be held at the Starlite Club on Hwy. 55 and JJ North of Kaukauna. Vendors open at 6:00 am and doors open at 8:00 am. Coffee and donuts. Lunch available. Amateur Radio License examinations at 9:00 am, with check in 8:15 am to 8:50 am. For information contact Don Baker, NB9J, 621 W. 7th ST., Kaukauna, WI. 54130. (414) 766-3886. (also see ad in last months BSSS)

SATURDAY, NOVEMBER 9, 1991: The Milwaukee Repeater Club is proud to sponsor the 7th annual "6.91 Friendly Fest" from 8 am: to 1:00 pm (sellers admitted at 7:00 am), at Serb Hall, 51st and Oklahoma Ave., The selling halls are located entirely on the ground floor with easy access so, rain or shine, gather up your swapfest bargains and come share out famous Milwaukee Hospitality. Tickets are just \$4.00, four-foot tables for \$5.00. To save \$1.00 per ticket or table, send SASE with payment to the Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201, Before November 2, 1991. Talk-in on 146.91 (The Friendly Repeater) and on 146.52. On-site Amateur Exams.

SUNDAY, DECEMBER 29, 1991. South Bend IN. Hamfest. contact Wayne Werts, K9IXU, 1889 River-

side Dr., South Bend, IN 46616. (219) 233-5307.

SATURDAY, JANUARY 11, 1992. Midwinter Swapfest, sponsored by the West Allis RAC, at Waukesha Exposition Center, Waukesha, WI. For more information see the ad on the last page.

SUNDAY, FEBRUARY 8, 1992. Midwinter Madness Hobby Electronics Show, Blain Minn. Robbinsdale ARC, P.O. Box 22613, Robbinsdale. MN 55422.

SATURDAY, MARCH 22, 1992. Jefferson County Fairgrounds, Hwy. 18 West, Jefferson, WI sponsored by the Tri-County ARC. Contact TCARC, W9MQB, 213 Frederick, Fort Atkinson, WI 53538.

SATURDAY, MAY 2, 1992. The Ozaukee Radio Club will sponsor its 14th annual Cedarburg Swapfest, at the Circle-B Recreation Center, Hwy. 60 and Cty. I. Contact ORC Swapfest, 11448 Laguna Dr., Mequon, WI 53092. (414) 242-4995.

SUNDAY, OCTOBER 11, 1992. The KMRA 1991 Computer and Ham Radio Swapfest will be held at the Waukesha County Exposition Center, Hwys. J and FT in Waukesha, WI. Contact KMRA Swapfest, P.O. Box 411, Waukesha, WI 53187-0411.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates etc. please contact K9ZZ or K9EN.

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

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Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than SEVEN DAYS after the club's meeting. For

example, if a club meets on the 4th of the month, the material should be sent no later than the 11th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. This credit is mandatory, and no material may be printed unless it is given. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

Club Meetings

Do to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

BADGER AMATEUR RADIO SOCIETY

(W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Wed. - 7:30 p.m. - B-314, Electrical Engineering Bldg.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.

(STEVENS POINT)

Second Wed..

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tues - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave., room "C" downstairs. It is the next building west of the Hill Farms State Office building. The meetings start promptly at 7:30 pm.

FOX CITIES AMATEUR RADIO CLUB

Third Mon. - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886.

GREATER MILWAUKEE DX ASSOCIATION

Fourth Mon. of the month at 7:30 p.m. Contact Jerry Scherkenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB

Second Thur. - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB

Third Mon. - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORaine RADIO AMATEURS

Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.

Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSN

The meeting schedule for 1991 is as follows: Nov. 11.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed.

General meeting: Second Wed.

Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin ST., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB

Last Tue. - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB

Fourth Thur. - Room #280 Wauwatosa East High School, located at 74th and Milwaukee Ave. in Wauwatosa. No meetings in July, August and December.) Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB

4th Tue. - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonie, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)

Third Tue.. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhinelander, WI. Talk-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB

Second Wed. - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55

Contact Robert Shady, KB9XR, Treasurer, 905 E. Doty Place, Milwaukee, WI, 53207. For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Mon. monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB

Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB

First Tue. - 7:45 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

Monthly - first Tue. - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Juneau, WI.

ARES Net: 146.04/146.64 Mon.s at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)**MEDFORD**

Usually the 2nd Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wed. nights at 8:30 PM on 147.75/15. For info contact: Rolland Walty, W9LEE, W4117 Hwy. 102, Westboro, WI 54490. (715) 427-3492

TRI-COUNTY AMATEUR RADIO CLUB

Sun. of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314

Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Tue.: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Mon. 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

WAUPACA AMATEUR RADIO CLUB

First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca.

"QQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

WEST ALLIS RADIO AMATEUR CLUB

Second Tue. - 8:00 p.m. - St. Peters Episcopal Church, 7929 Lincoln Ave. Entrance is at rear of building on alley.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tue. - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: Scheduled meeting dates: All meeting at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in visiting or joining your club,

The Test Point

Amateur Radio examinations scheduled in and around Wisconsin

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

November 2, 1991	Menomonie, WI
November 2, 1991	Menomonie, MI
November 3, 1991	Kaukauna, WI
	Foxcities hamfest
November 4, 1991	St Paul, MN
November 9, 1991	Marshfield, WI
November 9, 1991	Bloomington, MN (BARC)
November 9, 1991	Oak Forest, IL
November 9, 1991	Dixon, IL
November 9, 1991	Oak Forest, IL
November 10, 1991	Danville, IL
November 11, 1991	Onalaska, WI
November 13, 1991	Schofield, WI
November 16, 1991	Milwaukee, WI (BE)
November 16, 1991	Bolingbrook, IL

November 16, 1991	St Paul Park, MN (SEMARC)
November 17, 1991	Des Moines, IA
November 19, 1991	Milwaukee, WI (MRAC)
November 20, 1991	Grand Rapids, MN
November 21, 1991	Park Ridge, IL
November 30, 1991	Milwaukee, WI (MRAC)
December 2, 1991	St. Paul, MN
December 7, 1991	Stevens Point, WI
December 7, 1991	Dubuque, IA
December 7, 1991	Marquette, MI
December 7, 1991	St Paul, MN (SPARC)
December 14, 1991	Oak Forest, IL
December 14, 1991	Alexandria, MN
December 14, 1991	Bloomington, MN (BARC)
December 17, 1991	Milwaukee, WI (MRAC)
December 21, 1991	Milwaukee, WI (BE)
December 21, 1991	St Paul Park, MN (SEMARC)
December 28, 1991	Corunna, MI
January 11, 1992	Marshfield, WI
January 18, 1992	Milwaukee, WI (BE)
January 19, 1992	Des Moines, IA
January 19, 1992	Dixon, IL
February 15, 1992	Milwaukee, WI (BE)
March 14, 1992	Marshfield, WI
March 21, 1992	Milwaukee, WI (BE)
March 28, 1992	Menomonie, WI
April 18, 1992	Milwaukee, WI (BE)
May 2, 1992	Ozaukee, WI (BE)
	Ozaukee swapfest
May 9, 1992	Marshfield, WI
July 11, 1992,	Marshfield, WI
September 12, 1992	Marshfield, WI
November 14, 1992	Marshfield, WI
November 7, 1992	Menomonie, WI
November 16, 1991	Milwaukee, WI (BE)

Monthly, First Sat. Racine, WI
(except January, July & August)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)
Monthly, Third Sat. Loves Park, IL

Many of the larger Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

GENERAL RULES**FOR MOST EXAMINATIONS:**

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

(continued on page 18)

Wisconsin Nets Association Ltd.

Rob Hummel, WA9ZTY, Secretary • 202 Midvale Drive • Marshall, WI 53559

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	WB9ESM
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	N59Q
		(Rhineclander area)			
6:30 Net	No	01/61	0030	1830	KA9OMC
Gr. Bay	No	72/12	0245	2045	WB9NRK
		(Green Bay area)			
ARES	No	4.65/5.25	0200	2000	
		(South East/South Central Wisconsin)			
RACES	No	3993.5	1815	1215	WC9AAG
		(USB Tuesday and Thursday)			
RACES	No	3993.5	1400	0800	WA9OAY
		(LSB Sunday)			

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Season's Greetings!

W9YCV has been a member of the ARRL for 55 years.

Rock River RC now has 85 members.

K9FWN has been appointed as Technical Specialist and received his free TC Manual. Would anyone else like to be a TS?

K9KSA is tabulating 1991 traffic totals for the Traffic Handlers of the Year Awards. Help Don by getting your totals in promptly.

W9MFG and KA9KLZ are working on possible WNA scholarship fund for amateurs, and have raised \$120 seed money.

If you have any ideas for ARRL Public Service Advisory Committee, please let me know.

The Racine Megacycle Club will hold a meeting on December 6th at the Highway 38 Wustum Museum, with cake and coffee served afterward. They will also have Amateur Radio exam sessions on December 7th at the Red Cross Building, and a Fox Hunt on December 13th.

Milwaukee RAC exams December 17th in West Allis; info from KE9JJ and W9JK.

Four Lakes ARC will hold December 17th

Net News and Gossip

Written and Edited by the Net Managers

Badger Weather Net

Jim Merrill, W9AYK, Net Manager
W283 Hillendale Drive
Oconomowoc, WI 53066

This net meets formally daily from 6:00 through 7:15 a.m. on 3.984 MHz. Jim, WB9YPY, and Gus, W9IHW, share liaison duties to the National Weather Service in Milwaukee.

Our checkins average 61 to 65 stations per session, and the current average to date this year is 67 pieces of traffic passed per session. Most of that is weather traffic.

With 60 stations usually checking in, this net makes a reasonable place to find an outlet for your traffic (not a guarantee, however).

WB9YPY is an early riser, so he can be heard most every morning from 4:00 a.m. on to the end of the net. If you want to leave a message for a regular checkin, just "tack it on" to Jim's strong signal. He sometimes will even listen to bad jokes (again, that's not a guarantee), because he has some of his own that *might* be worse!

73, Jim, W9AYK/NM

Wisconsin Intrastate Net/Early (WIN/E)

Larry Guthu, WB9ICH, Net Manager
706 West Jennings
New London, WI 54961

Well, I think I finally have enough to say so that we can fill a few lines here in BSSS.

First, I would like to say that it was nice to see some of you at the W.N.A. Picnic. I wish more of you could have come, but maybe next year.

I would also like to say "thanks" to all the people who check in every night and keep the net going. You don't know how much I appreciate it. It makes my job as net manager so much easier when you have such fine people to work with.

We have had a few new check-ins, and I would like to welcome them officially. I hope they will stay

meeting holiday party at Brat and Brau/West in Clock Tower Court, with a good time promised for everyone.

December 21st exams at St. Nicholas Church in

For information about Wisconsin's winter weather information gathering system for the National Weather Service, please see "Operation Snowshoe" by Assistant Section Emergency Coordinator Sherm Carr, W9NGT, on page 8 of this issue.

with us for a long time to come. They are N9JNZ, N9JIY, N9KHD, K0SN, and W9ODV.

Now, we will get into a few net stats. The average QNI per month to date is 269. The average QTC per month to date is 54. The average QTR per month to date is 398 minutes. So, as you can see, we are alive and doing very well.

As always, we can use more people to volunteer for going to the first session of 9RN and to bring traffic from the WSBN. If you would be interested in helping, just drop me a message or catch me on the net and we'll find a spot for you.

I know that some of you may need your net certificates updated. I am working on that, so please be patient. We will get those to you, and we will also get the info on the new people and send them certificates also.

I guess that will do it for this time around. I hope to see you on the nets, and also hope that all will be getting ready for the coming cold weather and long nights of good DXing.

73, Larry, WB9ICH

Wisconsin Intrastate Net/Late (WIN/L)

Ed Rice, W9NGP, Net Manager
W126 Lang Road
Oconomowoc, WI 53066

The attendance at the WNA Picnic was good, and I enjoyed chatting with the WIN/L ops whose CW signals I hear every night, but whose faces I seldom see. I won a door prize, a bag of bird seed. I just finished the last of it. It was delicious with

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Milwaukee by Badger Examiners, with info from WI9M.

Thought for the month: *The solving of a problem lies in finding the solvers.*



HERE and THERE

FCC-ISSUED CALL SIGN UPDATE: The following is a list of the FCC's most recently issued call signs as of October 1:

District	Group A Extra	Group B Adv	Group C Tech/Gen	Group D Novice
0	AA0GD	KF0UI	N0PMG	KB0JOH
1	WW1O	KD1DT	K1KEW	KA1ZHM
2	AA2GP	KE2EK	N2OAC	KB2NQM
3	WR3Z	KD3YY	N3KOS	KA3ZKK
4	AC4JV	KO4KJ	----	KD4FGV
5	AB5BF	KI5UD	N5WLT	KB5QKB
6	AB6FQ	KM6JC	----	KD6BCK
7	AA7KO	KG7UM	N7UDT	KB7ODE
8	AA8FA	KF8PR	N8QFO	KB9NBD
9	AA9BW	KF9FW	N9MSH	KB9HGI
N. Mariana Islands	AH0K	AH0AH	KH0AN	WH0AAQ
Guam	KH2T	AH2CN	KH2FK	WH2AMU
Johnson Is.	AH3D	AH3AD	KH3AG	WH3AAG
Midway Is.		AH4AA	KH4AG	WH4AAH
Hawaii		AH6LK	WH6CP	WH6COI
Kure Is.			KH7AA	
Am. Samoa	AH8D	AH8AE	KH8AI	WH8ABA
Wake/Wilkes Peale	AH9A	AH9AD	KH9AE	WH9AAH
Alaska		AL7NN	NL7ZJ	WL7CCX
Virgin Is.	NP2S	KP2BZ	NP2ER	WP2AHL
Puerto Rico		KP4SK		WP4KNN

Note: The Technician/General call signs in Alaska are about to advance to the WL prefix.

- Mark, WB1E, via the WD9ESU packet BBS

CONGRESSIONAL UPDATE: Seven more U.S. representatives have joined H.R. 73 as co-sponsors, bringing the total to 144 (as of September 30).

The new co-sponsors of the Amateur Radio Spectrum Protection Act of 1991 are: Joe Skeen (R-NM); Sidney Yates (D-IL); Steven Schiff (R-NM); Jim Nussle (R-IA); Tom Downey (D-NY); Payne Lewis (D-VA); and James H. Bilbray (D-NV).

A Frigid Field Day



This photo was taken during a Field Day of a different sort than those of us here in the temperate zones enjoy. The event was in Alaska, and was held - when else - in the winter. Read about Winter Field Day in Alaska - about 30 years ago - in a story by Don Evenson, K9JYX, in December's *Badger State Smoke Signals*.

- Photo by Don Evenson/K9JYX

The following states have *no* representatives as co-sponsors: Alaska, Colorado, Delaware, Hawaii, Idaho, Nebraska, North Dakota, and Wyoming.

The companion Senate bill, S.1372, sponsored by Tennessee Sen. Albert Gore, had 13 co-sponsors as of late September.

- The ARRL Letter, 10/3/91

COMMITTEE REPORTS FAVORABLY ON AMENDED N.J. SCANNER LAW: On September 30, several ARRL officials met with members of the New Jersey Assembly's Committee on Judiciary and the Law to seek a "scanner law" more favorable to hams. The current New Jersey law makes simple possession of a scanner in a motor vehicle a crime. The proposed amended version, A-3044, would make the use of a scanner to abet a crime illegal.

Present at the meeting were ARRL Hudson Division Director Steve Mendelsohn, WA2DHF; NNJ Section Manager Rich Moseson, NW2L; Hudson Division Assistant Director Ken Hampton, KY2S; ARRL Volunteer Counsel Frank Terranella, N2IGO; and Mount Olive city councilman Bill Sohl, K2UNK.

Rock River Radio Club Plans Christmas Party, Enjoys Steady Growth

The Rock River Radio Club will have its annual Christmas party on December 7 at Sunset Hills Golf and Supper Club, just north of Beaver Dam. Attitude Adjustment Hour starts at 5:30, and dinner will be at 6:30 p.m. Cost for the dinner is \$10.00. Reservations should be sent to Arnie Zietlow, KA9FNE, RRRC Treasurer, 155 South Hyland, Juneau, WI 53039.

The RRRC now has 84 members, and the club is growing. This is due to the excellent training classes offered by the club, along with a host of activities suitable for the novice as well as the old-timers. The club expects to become a Special Service Club as soon as the application paperwork is approved.

- Duane Haas, W9BCV, President
410 De Clark St., Beaver Dam, WI 53916

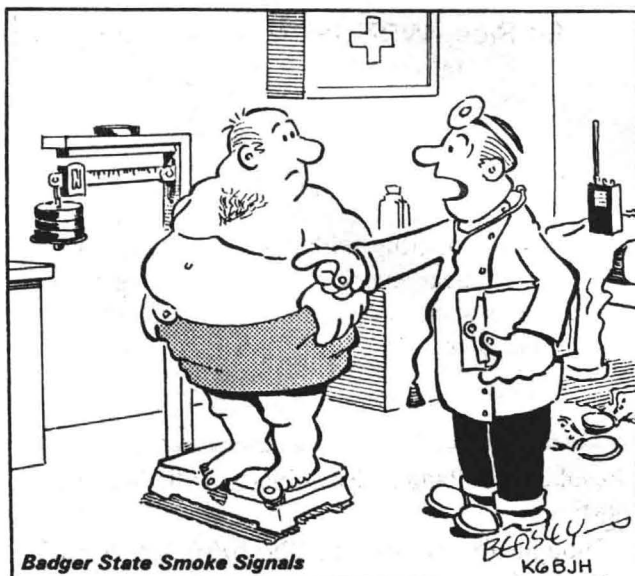
The committee voted to send the amended bill to the floor of the New Jersey Assembly. The New Jersey Senate version of the bill (S-305) has already been passed.

- The ARRL Letter, 10/3/91

FCC DINGS TCI CABLEVISION FOR LEAKY CABLE SYSTEMS: On September 20, the FCC issued the following news release: TCI Cablevision of Maryland Fined \$36,250 for Signal Leakage; (Report MM-573, Mass Media Action). The Commission has notified TCI Cablevision of Maryland, Inc., that it has incurred an apparent liability for forfeiture of \$36,250 for excessive cable signal leakage at its systems serving Elkton, North East, and Charlestown, MD. Action by the Commission on September 17 by Letter (FCC 91-291).

- Karl Pagel, N6BVU,
in *Westlink Report*, 10/17/91

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Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913. **Please do not send cash!**

Retailer Instructs Staff in Sales of Amateur Gear

You don't need a license to buy a ham radio transceiver. Now that Radio Shack stores are carrying a two-meter handheld in addition to the 10-meter HTX-100 transceiver, concerns have surfaced that this might lead to an increase in unlicensed, illegal operation.

This topic was scheduled to be addressed in Radio Shack's October "Merchandising Newsletter," which goes to every Radio Shack store. It was written by Dave Wolf, WO5H, one of the approximately 2,000 licensed amateurs in the Tandy/Radio Shack organization. In brief, the article makes the following points:

- Radio Shack has a firm policy on the sale of any product for an illegal purpose: "If someone comes in and asks for a couple of walkie-talkies to keep in contact around their warehouse, do not sell them two HTX-202s."

- New products other than CB, directly targeted to business users, are in the works.

- You need a Technician or higher class license to transmit on the two-meter band; *Now You're Talking* is just the book to get someone on their way (and is available in Radio Shack stores - ed.).

- Showing a ham license is NOT required to buy a HTX-202. There are lots of legitimate reasons why a non-ham might want to buy one. Store personnel are told, "Qualify the customer. Make sure they are aware that the unit is for use ONLY for non-commercial purposes on the two-meter amateur band; that a ham license (Technician-class or higher) must be issued and possessed before any transmis-

sion is made; that 'bootleggers' are most unwelcome on the ham bands and hams actively police their frequencies.

"We DO care if a transceiver is knowingly sold to someone who intends to misuse it and you should too. Those of us most directly involved with the development of the HTX-100 and HTX-202 are licensed, active hams who do not condone illegal operation."

- "Radio Shack has done far more than any other manufacturer or retailer, by placing warnings that one must have a ham license before transmitting on the giftbox, in the owner's manual, in all advertising, and on the product itself."

- "Several times a year, Data Processing mails to your store the names of your local ham clubs and how to get in touch with them. This information is based upon a computer tape we receive from the ARRL (American Radio Relay League) and is organized by zip code. You are encouraged to publicize the date, time and place of your local ham club's meetings. You are also encouraged to publicize ham license classes in your community."

- The ARRL Letter, 9/19/91



SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: Uniden HR-210 10-meter transceiver, \$249.95. 10-meter and 2-meter mobile antennas.
WANTED: All-mode VHF/UHF all-band transceiver. Rich Jenneman, N9MEH, Rte. 2, Box 104, Stanley, WI 54768. (715) 644-2112.

"Copper Country" Award Offered

The Copper Country Amateur Radio Association, Inc., sponsors the Copper Country Award.

To qualify for the award, make four QSOs, each with a different Copper Country ham, using at least two different Amateur Radio bands (all modes equal). Contacts must have taken place on or after September 1, 1990. Contacts can be any mode, but must be person-to-person (no digital bulletin board messages).

Copper Country hams are amateur operators in residence in Keweenaw, Houghton, Ontonagon, and Baraga counties in Michigan.

To claim your 8 x 10 inch award certificate, send evidence of your four QSOs (log entries preferred), \$1.00, and an SASE to: Awards Manager, Copper Country Amateur Radio Association, P.O. Box 217, Dollar Bay, MI 49931.

- Bryan Suits, WB8WKN

FOR SALE: Linear amplifier, 10-80 meters, Heathkit SB-200, completely checked over by Heathkit. Asking \$325.00. Also have 3 VHF/UHF crystal scanners (one a portable); call for details. Also 2 microphones, one Shure 444 for \$40.00, and a chrome Asztec model 104 with amp for \$45.00. Carl Lassanske, N9JXB, Rte. 3, Box 449, Wautoma, WI 54982. (414) 787-4978.

FOR SALE: Nice Collins 30L1. Round emblem. Contact Millard Christianson, 424 W. Pine St., Sturgeon Bay, WI 54235. Phone (414) 743-1310.

Rock River Radio Club Raises Funds to Furnish New Two-Meter Radio to Dodge County Sheriff's Department

Thanks to the efforts of many members of the Rock River Radio Club, a new 2-meter radio was purchased and installed at the Thanks to the effort of many members of the Rock River Radio Club, a new 2-meter radio was purchased and installed in the Emergency Communications Center of the Dodge County Sheriff's Department. The radio will be used during operation of the Dodge County ARES Net. Funds for the rig came from three sources: An auction held at the RRRRC's picnic, a door prize drawing at the picnic, and from a generous donation from the Rob Hummel family. The rig was donated in memory of the late Redd Beneditz, W9IZG, and in honor of Bill Hummel by his son, Rob, WA9ZTY. Pictured at right are **FRONT ROW:** Arnie Zietlow, KA9FNE (RRRC Treasurer and Dodge County Emergency Communications Coordinator); Beryl Pedersen, KA9BAC (RRRC Secretary); and Duane Haas, W9BCV (RRRC President and Assistant EC). **BACK ROW:** Dodge County Sheriff Stephen Fitzgerald; Roy Pedersen, K9FHI (Assistant ECC); Chief Deputy Jerry Witte (Civil Defense Coordinator); and Dale Marks, WB9ADB (RRRC Program Director and Repeater Trustee).

- Photo and story courtesy of
 Duane Haas, W9BCV, President
 Rock River Radio Club
 410 De Clark Street,
 Beaver Dam, WI 53916



Arkansas Amateurs Help Find Law Enforcement Radio Interference Source

On September 14, 1991, Hams from four counties joined forces to find a transmitter which had kept the Lawrence County Sheriff's office Hi-Band repeater off the air for days. A faulty "simplex repeater" unit at the Strawberry Fire Department's fire station had kept a transmitter tuned to the Sheriff's Department frequency keyed up since sometime Thursday.

When Sheriff's office officials had been unable to find the cause of the problem themselves, it was reported that they had called in the FCC and supposedly suspected a local ham was the cause of the interference. The ham in question had been told to come to the Sheriff's office Monday, at which time the FCC would be there to investigate the problem.

Around 6 p.m. Saturday night, a group of hams gathered on the 145.190 Sharp County Amateur Club repeater and began discussing the problem. Two stations were able to receive a steady, continuous signal on the Sheriff's repeater's input frequency, but neither had directional antennas. Calls went out on the 147.270 repeater in Batesville, on the 146.790 repeater in Walnut Ridge and on the packet radio network for anyone with a beam antenna and a 154 MHz receiver to try to get a heading on the offending signal. By 8:30, two headings had been reported on the signal and the hunt was on!

Three hams started in the direction of the coordinates determined by the beam headings, and soon the previously marginal signal began shooting up in strength. Up to this point, it was uncertain whether the signal was of an incidental nature or was, as it turned out to be, a transmitter that was supposed to be on that frequency and was accidentally being keyed.

Once the signal was strong enough to hear properly, one ham was able to determine that the signal was transmitting a PL tone, and that the only transmitters that should be in that area would be at a fire station. With only two in the vicinity, and hams coming at the signal from three different directions, it wasn't long until the offending transmitter was located.

The Sheriff's office was contacted, and a local firefighter was located to unlock the fire station. The transmitter was turned off at about 10 p.m., only four hours after the hams first heard of the problem, and less than two hours after the first beam heading was reported on the signal.

Among other things, this incident could serve as a persuasive argument in favor of Hams being allowed to mount radios in their vehicles that are capable of receiving public service transmissions. A hunt of this nature would not have been possible in some states because of restrictive "scanner" laws which do not exempt hams, and which effectively outlaw all of the equipment used in this hunt.

Hams participating included KB5ECV, KB5TI, K5TML, KG5KS, KB5KMN and WJ5W. Thanks also to those who attempted to help but were unable to copy the signal to get a beam heading, and to all those who were just around for moral support.

*** END OF MSG # 45136 from WJ5W @ KD5LF.AR.USA.NOAM

- From the WD9ESU packet BBS

Editorial

By Mark Thompson, WB9QZB
P.O. Box 357
Mount Prospect Illinois 60056

Hello, this is Mark, WB9QZB. I'd like to take a moment to introduce myself. I'm originally from Baraboo, WI. My dad is WB9SVL, and still lives in Baraboo. I went to college at the UW in Madison. I've lived in the Chicago area for the last 10 years. Jim, K9ZZ, taught my Novice class, and I've been licensed for over 16 years.

A few months ago, I started an editorial for the RAIN (Radio Amateur Information Network) Dial-Up Service. The RAIN Dial-Up is similar to the Newsline Service, and is broadcast nationwide on several repeaters. I recently discussed with Jim running my editorials in written form in Badger State Smoke Signals (BSSS). My editorials are thought-provoking and sometimes controversial. I hope you enjoy them. Please let me know what you think about them.

Phone Patches and the Law

Much has been written and discussed recently regarding the legality of autopatching and phone patching, especially in light of the BARF rules violation citations handed down by the FCC. This whole controversy, and what I've heard recently on both local VHF repeaters and HF phone patches, is the subject of this month's editorial.

Let me cite a couple of examples of what I believe are illegal uses of autopatch and phone patch privileges. Recently, I was listening to a local Chicago 2-meter repeater and heard some autopatches. In one of the autopatches, a ham called his place of employment and picked up business-related messages. No, he then didn't proceed to call any of the messages, but what he did was in clear violation of FCC rules. In another autopatch, a husband called his wife and she gave him a long list of name-brand items to buy at a specific department store. This, too, seems in violation of FCC rules. In both cases, ham radio was being used to facilitate directly the affairs of a business and to avoid a toll carrier like the local phone company.

In many cases, repeater clubs charge a different and additional membership due if you want to use what they entitle "autopatch privileges." In other words, they're selling you the facility to make telephone calls that could, in many cases, be made by a

pay phone or cellular phone.

On HF we have a completely different, but similar, scenario with ships at sea and missionaries (affiliated with non-profit religious organizations) in the jungles using ham radio to make phone patches. They are using ham radio to avoid normal, and in most cases, expensive, ship-to-shore or local phone company charges.

Many of these phone patches are purely personal and unimportant in nature, and could have been made using the normal toll carriers. I've often heard the argument that missionaries are in remote areas—several hours from, in many cases, unreliable phones. Somehow, this is supposed to make it legal. One could make the same case for someone living in the Nevada desert, I suppose, but it too would be a specious argument. The reality is that someone like this has chosen to move into such a remote environment and must realize that ham radio was not designed as a poor man's phone company.

Why is this important? Because it sets a bad precedent. If a missionary and religious group can do it, then why not other non-profit groups, such as the Red Cross, Salvation Army, United Fund, etc. The possibilities are endless, and so is the potential for abuse and illegal use of ham radio.

The FCC rules are very clear about this matter. Pages 13-15 and 13-16 of the latest ARRL FCC Rule Book spell it out.

There are valid and legal uses for autopatches and phone patches, such emergency and public service use. Bypassing a toll carrier or using ham radio to facilitate the normal business affairs of an organization (profit or non-profit) is not.

While I don't condone the jamming of maritime mobile nets, we, as responsible hams, must encourage the ARRL and FCC to take a stand on this issue. The ARRL should reiterate what is a legal and illegal phone patch. The FCC should issue rules violations to not only those who jam nets and phone patches, but also to those to engage in making illegal phone patches and autopatches.

If we don't self-police this aspect of our amateur service, it will continue to degrade into the problems that we've seen in the "Better Amateur Radio Federation" (BARF) situation. This could cause the FCC to ban phone patching and autopatching completely. That would severely limit our emergency and public service capabilities. Write to your ARRL Director and Vice-Director today and express your concerns.


If you want to hear the RAIN Dial-Up Service, including my editorials, you can call (708) 299-INFO. The RAIN Dial-Up is updated weekly. See you next month.

73, Mark, WB9QZB

Packet Address:
WB9QZB @ KB9DIP.IL.USA.NA

Happy Thanksgiving

From the volunteer staff, authors, columnists, cartoonists, photographers, and all the other fine people whose work you enjoy each month here in *Badger State Smoke Signals!*



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Operation Showshoe

Winter storm snow depth reporting was implemented in the early 70s, and has continued pretty much as a Badger Weather Net operation. This year, however, the National Weather Service has asked us to expand this operation to include all the amateur networks.

Operation Snowshoe will be in operation whenever a snow advisory, winter storm watch, or winter storm warning is issued by the National Weather Service.

Snow depth data is used to verify forecasts, forecast spring runoff potential, assist in statistical analysis, and for other purposes. For good reason, snow depth reports should be received at Sullivan within six hours after measurement. Measurements should be taken at snowfall end, or when snow has diminished to flurries.

For this reason, depending on snow duration and end of snowfall, most, if not all, Wisconsin nets will be involved, including VHF and packet.

Measurement Procedure

Drifting affects measurement accuracy. Therefore, the Weather Service asks that we follow their recommended procedures:

- A. Measurements should be taken in at least three, and preferably five or six locations at least 15 feet apart, and the readings **averaged**.
- B. Attempt to use locations where drifting is minimal.
- C. Measurements are taken when snowfall has diminished to flurries.
- D. In some cases, where snow is heavy and wet, or is preceded (or followed) by rain or freezing rain, the report can so indicate, and how much of the snow depth is slush, if any.
- E. As snow accumulates with succeeding snowfall, only the new snow is measured.
- F. When a winter storm is accompanied by high winds during and after, actual snowfall is difficult to measure. In this event, the word "estimated" should be used.

Reporting Procedure

An abbreviated message format is used to expedite transmittal, and to permit tabulation by data collecting stations:

- A. Call sign of reporting station.
- B. Location.
- C. Time and date of measurement.
- D. Actual snow depth, with any supplemental data.

Collection, Routing, and Delivery

- A. Operation Snowshoe can utilize the traffic nets, VHF local and wide-area repeaters, and packet, to good advantage.
- B. The key to effective data collection is a number of collection and tabulation stations. This avoids high traffic volume directed at Sullivan; only summaries will be sent to them.
- C. Tabulation stations set up a four-column tabulation to record the data in 2 above.
- D. Data collection stations can forward tabulated reports via WNA traffic nets, wide-area VHF repeaters, or packet. There will be a full-time packet station at the National Weather Service Office at Sullivan, with a hard-copy printer, for either individual or tabulated reports. The Badger Weather Net may use its normal delivery methods or packet, whichever seems best.
- E. "Lake effect" snowfall can be significant, even with no major weather system occurrence. In this event, Weather Service will advise.

- Sherman Carr, W9NGT
Assistant Section Emergency Coordinator

Northern Wisconsin Radio Club and ARES Members Communicate for Triathlon



Helping the communications effort and ready for action during the Triathlon were Ken Drake, K9IAG, and Don Lund, K0DL.

- Photo courtesy of Dave Kaun/N9KMY

On Labor Day weekend, 275 triathletes descended on Menomonie, Wisconsin for the 12th annual Tinman Triathlon. This event, which consists of a one-mile swim, a 55-mile bike race, and a 12.4 mile run, takes place in the hills southeast of Menomonie in Dunn County and the waters of Lake Menomonie.

Communications for the Tinman were provided by Amateur Radio operators from the Northern Wisconsin Radio Club. This year, over twenty-five area hams turned out at the request of the Menomonie Optimist Club and Dunn County Emergency Coordinator Jim Ley, NX9F.

Hams were stationed around the road course at 2 - 3 mile intervals, and at the beach. Because of the coverage area needed, traffic was routed through the "wide area" N9HNI repeater, as well as on several simplex frequencies. The local cellular telephone company provided a phone at the control point to serve as a link to public service and emergency personnel.

Approximately 300 volunteers give of their time to make the race possible each year. Of the hams participating, the ages ranged from 11 to 60, with four counties represented. It would be hard to find another hobby that brings such a diverse group together in public service.

- Fred Boetcher, WU9R, and Dave Kaun, N9KMY

Ham Radio Shown at Central Wisconsin State Fair

An extensive display of Amateur Radio, sponsored by the Marshfield Area Amateur Radio Society, was shown at the Central Wisconsin State Fair from August 28 through September 2. The display included working HF and 2-meter stations, a QSL card display, and a code practice oscillator and key. Also shown were several older pieces of HF gear, including an "antique" 1950 Hallicrafters SX-71, owned by Guy Boucher, KB9GPJ, of Marshfield. Educational brochures and handouts for the public were available, as well as sign-up sheets for Amateur Radio license classes and for a Boy Scout Explorer Post.

A guest register was available for visiting hams to sign. Visitors came from throughout central Wisconsin, with the furthest ham signing the sheet coming from Appleton.

The exhibit was staffed by Bob McDaniel, WA9K, of Marshfield (1991 President of the Marshfield Area Amateur Radio Society), along with WB0KIN, KA0TTB, WN9K, KB9RS, N9DXZ, and KA9IKV.

(WA9K's son, James McDaniel, who just turned 10 years old in April, passed the Novice theory exam during this year's Field Day weekend, passed the 5 WPM code test shortly after that, and then upgraded to Technician Class at the Rhinelander Hamfest on August 10. Congrats!!)

- Mike Schoenfuss, N9GHZ
P.O. Box 401, Abbotsford, WI 54405-0401



Meetings of the Wisconsin Association of Repeaters are held on the second Saturdays of March, June, September, and December at various locations around the state.

Membership in W.A.R. is

made up of owners and representatives of Amateur Radio repeater systems.

Upcoming meetings of W.A.R. are: December - Oshkosh; March - Green Bay; June - Waupaca; September - Mil-

waukee.

For information, write to the Wisconsin Association of Repeaters, P.O. Box 23166, Milwaukee, WI 53223.

The Wisconsin Association of Repeaters is a member or-

ganization of the Mid-America Coordination Council (MACC).

The Wisconsin repeater directory on these pages was furnished by W.A.R.

Wisconsin Repeater Directory

- Listed in order by frequency
- Courtesy of the Wisconsin Association of Repeaters

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF/UHF spectrum, in the voluntary spirit of Amateur Radio.

GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 40 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect coordinated repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator.

Nels Harvey, WA9J08
Wisconsin Association of Repeaters
P.O. Box 23166
Milwaukee, WI 53223

O	Carrier Access	B	Burst
PL	Sub-Audible Continuous Tone	T	Touch-Tone
W	Whistle	C	Closed Private Repeater
A	Autopatch	(CA)	Closed Private Autopatch
E	Emergency Power	L	Link and/or Crossband
P	Portable	R	RACES Affiliated
Y	RTTY/ASCII	Z	Autopatch to Law Enforcement
PA	Packet Data Exchange	X	Wide Area Coverage

Wisconsin Sub-Audible Tone Plan By Region

North Central - 2A, 114.8 HZ.	North East - 1B, 107.2 HZ.
North West - 22, 110.9 HZ.	South Central - 32, 123.0 HZ.
South East - 3A, 127.3 HZ.	South West - 3B, 131.8 HZ.

Standard Inputs Unless Otherwise Noted

-600 KHz. below 147.00 MHz, +600 KHz. TO 148.00 MHz.
-1.6 MHz. for 220 MHz, and + 5 MHz. for 440 MHz.
421.25 MHz. TV Video + 18 MHz. 425.75 MHz. TV Aural, + 9 MHz.

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
MILWAUKEE	SE	29.620	WB9ZRB/R O				IND RP SY	03/14/90
LA CROSSE	SW	29.640	KE9XQ/R O				KE9XQ	04/20/91
STURTEVANT	SE	29.640	WA9ZY0/R O				WA9ZY0	05/27/90
MILWAUKEE	SE	29.680	N9BBG/R O PL 127.3			*	N9BBG	03/21/91
MILWAUKEE	SE	53.030	WB9TRO/R O			(TO)*	W.E.R.A.	03/28/91
MILWAUKEE	SE	52.680	WB9ZRB/R O				IND RP SY	03/14/90
GREENFIELD	SE	52.880	WB9WKR/R O				GF'LD 6RS	08/20/90
MONROE	SC	145.110	NR9W/R O			*	G C ARA	03/28/91
RICE LAKE	NW	145.110	WA9CXN/R O				WA9CXN	09/13/90
SHEBOYGAN	NE	145.110	KR9S/R O			*	SHEB DX	08/25/91
BALDWIN	NW	145.130	W9AVX/R O			*	ST.CR CD	03/27/91
MILWAUKEE	SE	145.130	N9EGR/R O AE Z X PL 141.3			*	MAARS	04/16/91
APPLETON	NE	145.150	K9DHR/R O CA E Z				C L RPT G	
MILWAUKEE	SE	145.170	W9FK/R O			*	W A RAC	08/15/91
MANITOWOC	NE	145.190	WB9MFB/R O X PL 107.2			*	WB9MFB	08/25/91
WEBB LAKE	NW	145.190	NOEDV/R O			*	NOEDV	03/23/91
STOCKBRIDGE	NE	145.210	KB9IE/R O PL				P GRNT RA	03/20/90
MILWAUKEE	SE	145.230	N9BMH/R O PL 141.3			*	N9BMH	05/13/91
HUBERTUS	SE	145.250	KA9HLP/R O				A.R.E.S.	11/24/89
DORCHESTER	NC	145.270	WA9ZCO/R O A E (TEMP OFF)			*	WA9ZCO	03/23/91
PLATTEVILLE	SW	145.270	W9M/R O A E			*	UWP-ARC	01/02/91
TREVOR	SE	145.290	KA9VZD/R O PL 107.2 A E L			*	STLIN ARC	05/11/91
ANTIGO	NC	145.310	KD9HH/R O			*	KD9HH	03/09/91
APPLETON	NE	145.330	WD9FLJ/R O PL 107.2			*	F V VHF A	03/26/91

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
PEPIN	NW	145.350	KB9S/R O				WAB ARS	11/22/90
RUBICON	SC	145.350	WB9KPG/R O A E Z			*	WB9KPG	03/29/91
SHAWANO	NC	145.350	KA9NWY/R O PL 114.8			*	KA9NWY	04/12/91
HILLSBORO	SW	145.370	KA9MNX/R O			*	WB9SBO	03/09/91
EAGLE RIVER	NC	145.390	KD9PT/R O			*	KD9PT	05/02/91
MILWAUKEE	SE	145.390	WB0AFB/R O PL 127.3				WB0AFB	11/19/90
TOMAH	SW	145.390	N9BOE/R O E Z911			*	N9BOE	03/09/91
WAUPACA	NC	145.410	WD9GJV/R O			*	WD9GJV	03/09/91
TOMAHAWK	NC	145.430	N9CLE/R O				TOM RP A	06/08/90
JANESVILLE	SC	145.450	WD9ACY/R O A E				R A T SYS	03/30/90
CRIVITZ	NC	145.470	KA9YQJ/R O PL 114.8 CA				KA9YQJ	08/20/90
SHELDON	NW	145.470	N9LIE/R O			*	N9LIE	06/15/91
JEFFERSON	SC	145.490	W9MGB/R O			*	TCARC	05/13/91
SUPERIOR	NW	145.490	K9ASC/R O			*	DC RACES	05/09/91
BAYFIELD	NW	146.610	W9BCY/R O				NLAND ARC	06/11/90
MANITOWOC	NE	146.610	W9DK/R O TT				MANCORAD	09/16/90
MENOMONIE	NW	146.610	WB9YMB/R O			*	R CDR RA	06/10/91
MILWAUKEE	SE	146.625	WB9ZRB/R O				WB9ZRB	03/14/90
NEW LONDON	NE	146.625	WB9ICH/R O			*	WB9ICH	03/15/91
JUNEAU	SC	146.640	W9TCH/R O A E Z911 WX			*	ROCK R RC	03/29/91
WAUSAU	NC	146.640	W9SM/R O E CA L Z X			*	W.V.R.A.	04/18/91
MINERAL PT.	SC	146.655	NX9V/R O			*	NX9V	03/09/91
BELOIT	SC	146.670	WA9JTX/R O			*	BELOIT AR	03/25/91
LC D'FLAMBEAU	NC	146.670	N9AFN/R O PL			*	N9ADA	03/26/91
MILWAUKEE	SE	146.670	W9WK/R O				P ARES	04/05/91
STEVENS POINT	NC	146.670	WB9QFW/R O A E Z			*	CNT WI RA	03/22/91
MADISON	SC	146.685	W9YT/R O PL 107.2				WB-B ARS	07/28/90
ETTRICK	SW	146.700	WA9HCZ/R O + RTTY 2125/2295			*	WA9HCZ	03/09/91
MANITOWOC	NE	146.700	K9FWR/R RTTY				K9FWR	12/10/89
MILTON	SC	146.715	WD9FKW/R O CA PL T			*	WD9FKW	03/16/91
IRMA	NC	146.730	K9GTQ/R O				K9GTQ	03/25/90
SLINGER	SE	146.730	W9MOD/R O PL 127.3			*	WA CO RG	03/15/91
STURGEON BAY	NE	146.730	WB9YUY/R O OR PL 107.2 E			*	WB9YUY	03/09/91
BURLINGTON	SE	146.745	WB9CAS/R O					08/25/91
APPLETON	NE	146.760	K9OQO/R O			*	F V VHF A	03/26/91
LA CROSSE	SW	146.760	K9CUT/R O			*	L C R ASC	03/09/91
MADISON	SC	146.760	WB9AER/R O PL E CA Z			*	M A R A	04/05/91
SUPERIOR	NW	146.760	W9BWK/R O				T P A RA	01/01/91
MILWAUKEE	SE	146.790	W9HHX/R O A PL				MSOE ARC	11/15/90
WI RAPIDS	NC	146.790	W9DQA/R O			*	MID-ST RA	03/30/91
ALGOMA	NE	146.805	WB9RJB/R O PL 107.2				WB9RJB	10/21/90
MENOMONIE	NW	146.805	N9HNI/R O			*	N9HNI	08/25/91
DELAFIELD	SE	146.820	W9OOW/R O GA E X PL 127.3			*	SEWFARS	04/24/91
SUPERIOR	NW	146.820	WA9VDW/R O PL A				T P A RA	01/01/91
WAUSAU	NC	146.820	W9BCC/R O E Z CA L X				RIB MT RA	05/27/90
WAUPACA	NC	146.835	N9BKJ/R O ARES/RACES			*	N9BKJ	04/30/91
MAUSTON	SC	146.850	N9FVP/R O			*	ARC OF CW	03/15/91
MILWAUKEE	SE	146.850	W9KHO/R O PL 127.3			*	MICORS	05/17/91
ELKHORN	SE	146.865	WA9AJW/R O				W CO ARES	06/08/90
LA CROSSE	SW	146.865	KE9XQ/R O				KE9XQ	04/20/91
BARABOO	SC	146.880	K9YXW/R O E X			*	C W R A	05/11/91
CHIP'WA FALLS	NW	146.880	WA9PAM/R O				WA9PAM	08/20/90
EAU CLAIRE	NW	146.910	K9UXP/R O A E X			*	E C ARC	03/18/91
MILWAUKEE	SE	146.910	WA9J0B/R O E Z X PL 127.3			*	M.R.C.	04/19/91
RICHLAND CTR	SW	146.910	WB9SLI/R O PL				P V RP A	03/30/90
WAUPACA	NC	146.925	KE9UT/R O A E Z911 WX			*	KE9UT	03/09/91
HIXTON	SW	146.940	KC9YE/R O			*	T-J RA	03/09/91
MADISON	SC	146.940	W9FZC/R O PL 123.0			*	C W R A	05/11/91
RHINELANDER	NC	146.940	W9ZZZ/R O A E				RHIN RP A	06/08/90
GREEN LAKE	SC	146.955	KB9WC/R O E			*	G FOX ARC	03/26/91
LA CROSSE	SW	146.970	KQJYB/R O A E			*	RVRLNDARC	04/19/91
PT WASHINGTON	SE	146.970	W9CQO/R O A PL 127.3 EXZ			*	ORC	04/01/91
TOMAHAWK	NC	146.970	KB9CNT/R O			*	KB9CNT	06/06/91
STEVENS POINT	NC	146.985	W9NB/R O E			*	CNT WI RA	03/22/91
MARINETTE	NE	147.000	W9N/R O ALSO MENOMONEE MI*					07/15/91
MILWAUKEE	SE	147.000	W9PY/R O PL 146.2			*	P.R.C.	04/08/91
PARK FALLS	NC	147.000	WB9WHP/R O			*	PRICE RA	08/25/91
FREMONT	NC	147.015	N9AOT/R O A L 29.600			*	N9AOT	03/20/91

Wisconsin Nets Association

Continued from page 4

milk and fruit. The Super Sticker Licker, N9BDL,

was absent, however, a great disappointment.

Our totals for the third quarter are:

QNI 623 QTC 210

QSP 180 QTR 985

We cleared 86% of the traffic offered, but only about 1/3 of those checking in brought traffic to

pass. If you have traffic left at 2200, bring it to WIN/L. We can take it to BEN or 9RN the next day. K0SN and K8SB are checking in regularly now, and K0SN does the 9RN chores frequently. Your help is appreciated, fellows; please keep it up.

73, Ed

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated	Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
MANITOWOC	NE	147.030	N9GHE/R	O A K			N9GHE	03/14/90	LA VALLE	SC	442.400	W9EBF/R	O PL 123.0			* W9EBF	08/25/91
RICE LAKE	NW	147.030	WB9WFG/R	O E			* BAR ARES	03/09/91	NEW BERLIN	SE	442.400	W9EBF/R	O PL 127.3			* W9EBF	08/25/91
GERMANTOWN	SE	147.045	WB9EFP/R	O CA			* WB9EFP	04/26/91	TREVOR	SE	442.600	KA9VZD/R	O E A Z X L 443.80			* KA9VZD	05/11/91
SHEBOYGAN	NE	147.060	W9RF/R	O			* SHEB ARC	08/25/91	WEST ALLIS	SE	442.650	W9EJO/R	O PL T			N9EJO	05/27/90
WAUSAU	NC	147.060	W9KRY/R	O CA E			KC9NW	07/02/90	MADISON	SC	443.000	NZ9B/R	O			BURG	07/09/90
KENOSHA	SE	147.075	WA9YTH/R	O A E PL 127.3			WA9YTH	03/30/90	APPLETON	NE	443.025	WB9IYV/R	C			WB9IYV	11/29/90
FOND DU LAC	NE	147.090	WD9ESH/R	O A E			FOND ARC	03/14/90	PEWAUKEE	SE	443.125	WB9AKC/R	O PL 114.8			W.C.T.C	05/27/90
LA CROSSE	SW	147.090	N9ETD/R	O			* MVARA	05/28/91	MILWAUKEE	SE	443.150	W9KHO/R	O PL 114.8			* MICORS	05/17/91
MILWAUKEE	SE	147.105	K9IFF/R	C CA TT			* K9IFF	03/09/91	GERMANTOWN	SE	443.225	WD9DH/R	O PL 114.8			W E R A	01/04/91
GREEN BAY	NE	147.120	K9GB/R	O A E Z			* G B M&K	03/09/91	EAU CLAIRE	NW	443.300	KB9R/R	O E			* KB9R/R	03/09/91
MILWAUKEE	SE	147.135	N9YT/R	O PL 141.3			NY9T	12/04/90	MILWAUKEE	SE	443.300	WB9TYT/R	O PL 114.8			* WB9TYT	05/17/91
SPOONER	NW	147.135	KE6WF/R	O E Z L 223.2MHZ.			* TNT	05/11/91	MADISON	SC	443.400	N9KAN/R	O CA PL 167.9			* N9KAN	03/30/91
MADISON	SC	147.150	WB9AER/R	O PL E CA Z			* M A R A	04/05/91	GREEN BAY	NE	443.500	WA9SWX/R	O A E Z			* GB M&K	03/09/91
MEDFORD	NC	147.150	W9QHI/R	O E P WX			TAYLOR	08/20/90	HERTEL	NW	443.500	WB9RAY/R	O A E			* B.A.R.S.	03/18/91
MILWAUKEE	SE	147.165	WB9SDD/R	O PL 127.3 E			* WB9SDD	03/19/91	MILWAUKEE	SE	443.550	K9HXA/A	C			K9HXA	09/30/90
MARSHFIELD	NC	147.180	WN9K/R	OAE Z911 L 444.975			* MARSH ARS	03/09/91	APPLETON	NE	443.650	W9DKY/R	O			* W9DKY	03/26/91
SISTER BAY	NE	147.180	W9QBJ/R	O			* D.C. ARC	05/25/91	MADISON	SC	443.675	KD9UU/R	O PL 114.8 OA'71'			KD9UU	03/09/91
EAU CLAIRE	NW	147.195	KA9LJK/R	O			KA9LJK	07/16/90	MILWAUKEE	SE	443.700	WA9HUX/R	O PL			WA9HUX	11/28/90
MILWAUKEE	SE	147.210	W9OOD/R	O PL 127.3			* M.U. ARC	04/18/91	DE PERE	NE	443.750	KE9LZ/R	O PL 107.2			* N9EPC	03/09/91
PEWAUKEE	SE	147.210	WB9AKC/R	O PL 173.8			W.C.T.C.	05/27/90	MILWAUKEE	SE	443.750	WA9POV/R	PL 127.3			* M UHF SO	03/09/91
STURGEON BAY	NE	147.210	W9AIQ/R	O CA E Z			DOOR E G	03/15/90	WAUSAU	NC	443.750	KC9NW/R	O CA			KC9NW	08/20/90
LODI	SC	147.225	K9EYY/R	O CA E PL 114.8			* K9EYY	02/25/91	MILWAUKEE	SE	443.800	N9GHT/R	O A E Z L PL 114.8			* FM 38	03/09/91
EAU CLAIRE	NW	147.240	KA9ELD/R	O CA E			* E C ARC	03/18/91	RIVER FALLS	NW	443.800	K9ZMA/R	O			* K9ZMA	03/14/91
OSHKOSH	NE	147.240	WB9TDU/R	O TT			WIN CTY E	08/20/90	BERLIN	SC	443.850	N9AOZ/R	O A PL 123.0			* N9AOZ	03/09/91
HAYWARD	NW	147.255	N9EGE/R	O CA			* NVWA	05/02/91	POWERS LAKE	SE	443.925	KC9XN/R	O PL 114.8				06/08/90
GREEN BAY	NE	147.270	KB9ALN/R	O PL 107.2 31U/32D			* NE WRL	03/28/91	RACINE	SE	443.950	KA9JMK/R	O PL 127.3			KA9JMK	06/08/90
RACINE	SE	147.270	W9UDU/R	O A E Z I P R			* L/S RP A	04/16/91	STEVENS POINT	NC	443.950	K9MIF/R	O			K9MIF	07/02/90
NEW BERLIN	SE	147.285	W9EBF/R	O PL 127.3			* W9EBF	08/25/91	MANITOWOC	NE	443.975	N9GHE/R	O			N9GHE	03/14/90
HERTEL	NW	147.300	WB9RAY/R	O A E			* B.A.R.S.	03/18/91	MADISON	SC	444.000	KA9VDU/R	O PL 123.0			KA9VDU	03/14/90
NEW HOLSTEIN	NE	147.300	K9LGR/R	O A E Z			* C.A.R.E.S	03/09/91	STURGEON BAY	NE	444.000	WB9YUY/R	O			* WB9YUY	03/09/91
BALDWIN	NW	147.330	WD9GWH/R	O			* ST.CR RA	03/18/91	RACINE	SE	444.050	KA9LOK/R	O			* KA9LOK	08/06/91
MILWAUKEE	SE	147.330	N9EDL/R	O A PL 114.8			N9EDL	06/06/90	PLYMOUTH	NE	444.100	KD9TZ/R	O PL 107.2			* KD9TZ	05/07/91
WI RAPIDS	NC	147.330	K9PJB/R	O CA E Z			* WI AIR RA	03/11/91	WAUSAU	NC	444.100	W9SWX/R	O CA 224.1			N9SWX	11/03/90
OSHKOSH	NE	147.345	WB9ZHN/R	O A E Z PL 107.2			* SOLAR	03/12/91	DELAFIELD	SE	444.125	WB9WHG/R	O PL 114.8			* SEWFARS	04/24/91
GREEN BAY	NE	147.360	K9EAM/R	O A E Z			* GB M&C	03/09/91	FOND DU LAC	NE	444.150	WA4COY/R	O B A PL 107.2			WA4COY	09/13/90
WAUKESHA	SE	147.390	N9KS/R	O			* E.A.R.S.	04/03/91	GREEN BAY	NE	444.200	WB9VJV/A	C			WB9VJV	06/08/90
WAUPACA	NC	147.390	WA9FDC/R	O A X ARES/RACES			* WP'ACA RC	04/06/91	MILWAUKEE	SE	444.200	K9HXA/A	C			K9HXA	09/30/90
FOND DU LAC	NE	223.740	WA4COY/R	O B CA			WA4COY	09/13/90	MILWAUKEE	SE	444.250	N9DII/R	C PL 114.8			N9DII	06/08/90
TOMAHAWK	NC	223.760	N9CLE/R	O			TOM RP A	06/08/90	MILWAUKEE	SE	444.300	W9WK/R	O Z PL 114.8			ARES	12/05/90
MILWAUKEE	SE	223.860	WB9UOS/R	O			WB9UOS	11/27/90	WAUSAU	NC	444.300	W9BCC/R	O E Z L			W9BCC	03/30/90
GREEN BAY	NE	223.940	WA9SWX/R	O A			* WA9SWX	05/15/91	MILWAUKEE	SE	444.325	N9CFG/R	O PL 114.8			* W.E.R.A.	03/14/91
BURLINGTON	SE	224.060	N9BBQ/R	O PL A E			SE WI ERS	03/20/90	CHIP'WA FALLS	NW	444.350	WA9PAM/R	O			WA9PAM	08/20/90
SALEM	SE	224.060	N9BBQ/R	O A E L Z			* N9BBQ	08/25/91	PLYMOUTH	NE	444.350	WE9R/R	O E L X PL 114.8			* WERA	04/10/91
WALES	SE	224.120	WB9DRO/R	O PL 114.8			* WB9DRO	03/09/91	GREEN LAKE	SC	444.400	KB9WC/R	O			* G FOX ARC	03/26/91
GREEN BAY	NE	224.140	KZ9O/R	O A E L PL			* RA RMT	03/09/91	MENO FALLS	SE	444.425	KA9FIN/R	O			* SHRINE	04/06/91
MADISON	SC	224.160	WB9RSQ/R	O PL			* WB9RSQ	03/26/91	KAUKAUNA	NE	444.450	N9DZ/R	O			* ND9Z	03/26/91
GERMANTOWN	SE	224.180	W9CQO/R	O			O.R.C.	01/04/91	RIDGEMAN	SC	444.450	KA9WBX/R	O PENDING			* KA9WBX	08/25/91
FREEDOM	NE	224.220	AA9A/R	O PL			AA9A	11/15/90	MADISON	SC	444.500	WB9TAE/R	O PL 123.0 A E L			* WB9TAE	03/16/91
BELOIT	SC	224.300	WB9UBM/R	O TT			C.B.S.RG	11/15/90	TOMAHAWK	NC	444.575	N9CLE/R	O			N9CLE	08/14/90
FORT ATKINSON	SC	224.420	N9DTT/R	PL			* N9DTT	03/14/90	FRANKLIN	SE	444.625	K9WQG/R	O			K9WQG	11/22/90
WAUKESHA	SE	224.460	KE9TA/R	O PL 85.4 CA			KE9TA	07/09/90	EAU CLAIRE	NW	444.675	KA9LJK/R	O			KA9LJK	07/16/90
GREEN BAY	NE	224.480	WA9SRW/R	O			WA9SRW	01/04/91	WAUSAU	NC	444.700	KC9NW/R	O E CA PL 179.9			KC9NW	07/02/90
HERTEL	NW	224.500	WB9RAY/R	O A E			* B.A.R.S.	03/18/91	COLGATE	SE	444.725	NY9Y/R	O			NY9Y	02/20/90
STOCKBRIDGE	NE	224.500	KB9IE/R	O A L			KB9IE	03/20/90	MADISON	SC	444.775	NG9V/R	O PL 114.8			* NG9V	05/11/91
WEST ALLIS	SE	224.520	KA9JCP/R	O			* KA9JCP	03/09/91	MILWAUKEE	SE	444.800	K9HXA/A	C			K9HXA	09/30/90
MANITOWOC	NE	224.540	N9GHE/R	O CA			N9GHE	03/14/90	WAUPACA	NC	444.825	N9BKJ/R	O L			* N9BKJ	04/30/91
WAUSAU	NC	224.640	W9SM/R	O E CA L Z X			* WI VAL RC	04/18/91	HAYWARD	NW	444.850	N9EGE/R	O			* N9EGE	03/09/91
POYNETTE	SC	224.660	KE9KX/R	O			* KE9KX	04/06/91	MILWAUKEE	SE	444.850	WB9TRO/R	C PL A E L			* W.E.R.A.	03/28/91
MILWAUKEE	SE	224.680	WD9ABR/R	O PL			* WD9ABR	04/20/91	TOMAH	SW	444.850	KB9EBX/R	O PL 167.9			* KB9EBX	03/09/91
STURTEVANT	SE	224.740	WA9ZYO/R	O A			WA9ZYO	05/27/90	MILWAUKEE	SE	444.875	WB9TRO/R	C			* W.E.R.A.	03/28/91
KENOSHA	SE	224.800	WB9LST/R	O Z E L			* WB9LST	03/26/91	SUPERIOR	NW	444.900	WA9KLM/R	O A			* WITC ARC	03/09/91
RIVER FALLS	NW	224.840	WBOWOT/R	O A			WBOWOT	10/21/90	WEST BEND	SE	444.900	N51IA/R	O PL 114.8			* N51IA	05/16/91
MILWAUKEE	SE	224.900	NK9G/R				NK9G	11/15/90	MADISON	SC	444.925	WB9TAE/R	O PL (MOBILE)			WB9TAE	09/30/90
PLYMOUTH	NE	224.940	KD9PE/R	O			SC 220 A	03/09/91	MILWAUKEE	SE	444.950	N9EDL/R	O A			N9EDL	06/06/90
MILWAUKEE	SE	224.960	WB9TYT/R	O CA PL 114.8			WB9TYT	07/27/90	GREENFIELD	SE	444.975	N9CFG/R	O PL 127.3			N9CFG	03/14/91
WAUSAU	NC	421.250	AD9W/R	O E L VIDEO			* RMATS	06/11/91	MARSHFIELD	NC	444.975	WN9K/R	O E L 167.18			* MARSH ARS	03/09/91
WAUSAU	NC	425.750	AD9W/R	O E L AURAL			* RMATS	06/11/91	STURGEON BAY	NE	920.000	WB9YUY/R	O			* WB9YUY	03/09/91
STOUGHTON	SC	434.000	N9BXA/R	O ATV			N9BXA	11/28/90	STURGEON BAY	NE	1282.100	WB9YUY/R	O			* WB9YUY	03/09/91
WAUSAU	NC	927.750	AD9W/R	O E L AUDIO			* RMATS	06/11/91	MILWAUKEE	SE	2391.250	K9JT/R	O			K9JT	11/04/90
WAUSAU	NC	923.250	AD9W/R	O E L VIDEO			* RMATS	06/11/91									
WAUPACA	NC	442.000	KE9UT/R	O			* KE9UT	03/09/91									
ALLENTON	SE	442.350	N9GHT/R	O A E L X PL 114.8			* L-FM 38	08/24/90									

From the Editor

Regular readers of this newspaper know that we frequently ask (beg) for photos to publish. We have good news and bad news. We're getting them is the good news; the bad news is that at least 50% are not useable. Here are some of the reasons we must leave some of the photos out:

- They are out of focus.
- They are of backs of heads, not faces.
- They are not properly lighted (underexposed or overexposed).
- No names or call signs are included.
- They are shot from so far away that, when enlarged during halftoning, they lose too much sharpness.
- They (especially group pictures taken indoors) are taken against a shiny background that produces a big white spot, which makes the subjects hard to see.
- They tell no story whatsoever.

One of the kind people who helps us with production, and who has been a newspaper photographer in the past, has indicated his willingness to write a story for *BSSS* which will, hopefully, help our readers to take photos which will be of printable quality. We do *not* expect studio-quality pictures, of course; for most of us, photography is just another hobby. But, the article *should* help our readers to take better pictures and, as a result, we hope to see more photos in this newspaper.

It is important to tell you that you do *not* need a \$500.00 camera to take good, printable photos! Look at the pictures of Field Day operations we ran a few months ago. The pix of the West Allis Radio Amateur Club's operation were taken with an inexpensive, zone-focus Ansco camera on color film. You do *not* need a megabuck camera to get good pictures. You *do* need to pay attention to a few basic, but essential, details.

We can use either black and white or color glossy photos - *if they are properly processed!* Finding decent black and white processing seems to be difficult, and even some color labs don't appear to pay much attention to print quality.

There is a very good black and white processor in Madison, but they don't work cheap. It is Acme Photofinishing. Acme processed the photos we took at the Madison Swapfest in April, as well as the photos of the Yellow Thunder Amateur Radio Club's Field Day activity. Photos from both events were published here in *BSSS*. This is not necessarily a "free ad" for Acme, but to let you know that there *are* good processors around.

Watch for the how-to story in a future issue. We hope it will result in better - and more - photos here in *Badger State Smoke Signals!*

- Jim Romelfanger, K9ZZ

Correspondence

....from our readers

Beating the Breathalyzer Test with RFI: Courting Trouble?

10/8/91

Mr. Romelfanger:

I read with interest last month's article about Mike, N9GHZ, about how to beat a Breathalyzer test with RFI.

In Clark County, I'll be watching closely for anyone showing up for their test with an HT or maybe a Kenwood TS-950S with a portable vertical and a linear running 1500 watts trying to create a little RFI.

There's always something to learn in *Smoke Signals*.

Best regards.

Mike, N9MCH

(a/k/a His Honor da Judge in Clark County.)

Well, Mike, we *do* try to carry at least *some* educational material!
- Editor

Steve? Bob? How Time Changes Things!

13 October 1991

Dear Jim:

I have put this off for some time, but finally decided that I can't help but write you about the article in the September 1991 issue of *BSSS*. Been getting a little kidding about it. It is the first time I can ever remember anyone in Wisconsin calling me "Bob."

First of all, as a youth I never met Harry, W8OQY (in fact, I have not met him to this day, and have never been in Whitehall). My closest contact with him was when we lived across the street from each other in Spring Lake, Michigan, and one

day noticed his 600-ohm feed line going up the side of the house. Not knowing what it was at the time, a friend of mine told me, "He monkeys around with short wave radio."

My father's job as a railroad agent/telegrapher moved us many times and, in 1941, we were in Sparta, Michigan. After first learning Morse telegraphy, I became interested in radio and, after mastering International Morse, passed the test and was issued the call W8WEP with the name Robert.

I was known as Bob in Michigan prior to WW II, but when I got a copy of my birth certificate I found I was recorded as "R Stephen Bellgraph (no period after the R). Since 1941, I have been known as Steve.

After the war, I moved to Racine, Wisconsin and (as required then) finally applied for a 9 call, and got W9OQY.

Some time around 1970, friends told me that there was a W8OQY on 80 phone, so I kept looking for him. About a year later, while operating portable at my in-laws' cottage, I finally heard him talking to someone, as I remember, in Indiana. I broke in to let him know I was around. This is when I learned that we had both lived in Spring Lake across the street from each other, and that our fathers had been good friends.

After a long contact, which covered everything we remembered about Spring Lake and all the people we remembered, almost ignoring the other station, he finally came in to let us know that he had found our contact so interesting that he had called his XYL to hear what was going on.

It's interesting how stories change with the telling.

Some time later, I heard Harry on the Wisconsin phone net, looking for a phone patch to his daughter in Racine, his son-in-law at that time being in the Coast Guard in Racine.

Since I did not have an operating phone patch at that time, I held off checking in, but when I finally checked in as W9OQY in Racine, you should have heard the NCS' confusion.

Since this time, I have become K9ZL.

73.

Steve Bellgraph

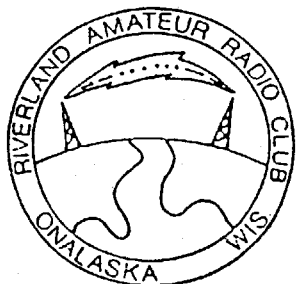
Thanks for clearing this up, Steve. It's always good to hear from you.
- Editor



ARES at Work!

This photo was taken by Don Evenson, K9JYX, at the net control station for a circus parade net in Baraboo in the 1960s. From left are Paul Belton, WA9CDY, Portage (now a major-league DXer), Jim Romelfanger, K9PKO (now K9ZZ and a minor-league newspaper editor), Baraboo, and veteran NCS OP George Halper, W9SUF, Milwaukee. The station was set up in the office of then-Civil Defense Director Russell Prothro.

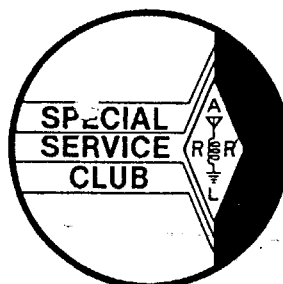
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Badger State Smoke Signals?



Riverland Amateur Radio Club

Karl Simonson, KB9EQI, Secretary

P.O. Box 2251 • La Crosse, WI 54602-2251



Meeting Minutes October 1, 1991

The October 1st meeting of the Riverland Amateur Radio Club was called to order by President Walt Altus, AA9AW, at 7:45 p.m.

Everyone introduced themselves, including members and visitors.

The Secretary's report was read by Secretary Karl Simonson, KB9EQI. The following corrections were noted: The annual club dinner will be held January 11th, 1992; and the club adopted a policy for the use of the club's communications trailer at the September meeting. The Secretary's report was approved as amended.

The Treasurer's report was given by President Walt Altus, AA9AW, due to our Treasurer, Arby Boomer, WF9T, not being able to attend the meeting.

The club acknowledges receipt of donations from Ken Weigel, WG9M, and the Winona Amateur Radio Club. A thank-you note will be sent to these donors.

A plaque in memoriam of Al Reinholz's bequest and in recognition of Al's dedication to the Amateur Radio Service was presented to the membership. The plaque will be placed in the club's communications trailer.

The annual dinner will be held at Christopher's restaurant in Valley View Mall on January 11th, 1992 at 6:30 p.m.

Dick Low, K0JYB, gave a presentation on advertising pens which would be used to promote Amateur Radio. A sample was available for the club to review, and the costs involved were mentioned. A different idea was also suggested: the club could purchase pins similar to name badges with the message "Ask me about ham radio" engraved in them. No decision was made at this time to purchase either product.

A thank-you note received from the Onalaska Public Library for the book *Now You're Talking* was read by Dick.

Feroz Ghouse, WU9N, program chairman, suggested the club take nominations for the Ham Of The Year award. Feroz also said that the Planetarium visit scheduled for the November meeting will be held in the basement of Cowley Hall at the University of Wisconsin-LaCrosse. Seating is limited to about 55 persons, and nobody will be admitted after the program begins. The planetarium visit is open to all members and guests are invited. There will be a drawing of names for the gift exchange scheduled for December at the November meeting. The suggested value of the gifts is not to exceed \$7.50.

Walt, AA9AW, gave a report of the repeater control committee. Feroz, WU9N, moved, and Tom Gromacki, N9KIA, seconded a motion to purchase the version 5 firmware upgrade for the repeater controller. Karl, KB9EQI, gave a report on the features available with the upgrade and the other enhancements the firmware revision would allow. The motion was approved unanimously.

New Business

Feroz reported that Mayor Patrick Zielke of the City of LaCrosse will be proclaiming the weekend of October 19th and 20th "Amateur Radio Awareness Weekend." (The proclamation is in the right-hand column on this page.) The club will promote amateur radio awareness by setting up a station in Riverside Park, to be used in conjunction with the Simulated Emergency Test exercise scheduled the same weekend. A motion was made by Van Elston, WA9FIO, and seconded by Bruce Bjerstedt, K9CUT, to commit Feroz and Scott Neader, KA9FOX, as chairman of a committee to organize the event. The committee will be subject to the Executive Committee's approval. The motion carried.

Van, WA9FIO, reported that the braking system on the communications trailer has been repaired. Van also stated that the trailer's signal lights need to be repaired or replaced.

A trailer committee was appointed. The members are: Kent Helman, W9LZQ, Chairman; Nook Bentzen, K9EGO; and Feroz Ghouse, WU9N.

Karl, KB9EQI, moved, and Bob Wilson, N9LZK, seconded a motion to extend the meeting so that more discussion could be heard on the trailer.

Rick Williams, KV9U, moved, and Feroz, WU9N, seconded a motion to adjourn. □

Meeting Attendance

Walt Altus
Joe Mezera
Les Jenks
Art Osborn
Tom Gromacki
Ray Wakeen
Bob Stark (Guest)
Phillip Streng (Guest)
Dallas Miller
Ralph Jahimiak
Nook Bentzen
Greg Miller
Judy Williams
Feroz Ghouse
Bruce Bjerstedt
John Young

AA9AW
WA9SOQ
W9AKY
W0JDC
N9KIA
WA9HHM
N0PDD
N0OWO
K9LEC
WA9OAE
K9EGO
KA9FOZ
N9LGV
WU9N
K9CUT
W9KAZ

Proclamation • Mayor's Office City of La Crosse

WHEREAS, amateur radio operators have voluntarily contributed their time and equipment for communications duty in the public service; and

WHEREAS, public service communication has been a traditional responsibility of amateur radio since 1913; and

WHEREAS, amateur radio has provided world wide communication to disaster stricken areas; and

WHEREAS, La Crosse area amateur radio operators have provided weather spotter services through the National Weather Service Skywarn Program; and

WHEREAS, La Crosse area amateurs are prepared in the event of a disaster or emergency to assist local units of government with supplemental local and world-wide communications; and

WHEREAS, the Riverland Amateur Radio Club is the holder of the Special Services Club designation, indicating its commitment to public service; and

WHEREAS, the amateur radio operators may provide the only means of stable communications during floods and emergencies; and

WHEREAS, the spectrum and the nature of amateur radio enables people of a wide variety of interests and from a cross-cut of society to come together in service to society as well as themselves.

NOW THEREFORE, I, PATRICK ZIELKE, MAYOR OF THE CITY OF LA CROSSE,

do hereby proclaim October 19 and 20, 1991 as,

"AMATEUR RADIO WEEKEND"

Dated on this 7th day of October in the year of our Lord Nineteen Hundred and Ninety-One.

Signed

Mayor Patrick Zielke

(The proclamation was accepted by Walt Altus AA9AW, President of the Riverland Amateur Radio Club, in the presence of Kent Helman, W9LZQ, Feroz Ghouse, WU9N, and Greg Miller, KA9FOZ, at City Hall in La Crosse on the 7th of October 1991, at 10:00 Hrs.)

Van Elston	WA9FIO
Rick Williams	KV9U
Ken Eggen	WA0RBU
Jim Brooker	N9DBK
Chad Kurszewski (Guest)	WE9V
Karl Simonson	KB9EQI
Jule Kish	KA9UJL
Charlie Burch	KA9UUK
Scott Neader	KA9FOX
Charlie Ferries	W9TCW
Bob Wilson	N9LZK
Dick Low	K0JYB

□



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

Minutes: Meeting of October 9, 1991

The meeting was called to order at 1931 hours local time, with 26 members and guests present. The roll was as follows:

Art Wysocki	N9BCA
Mike Smith	N9IAT
Jim Benak	KA9ACE
Linda Kinney	XYL of KF9FI
John Kinney	KF9FI
Frank Guth	W9BCC
Joe Larson	N9JW
Russ Fritz	KB9FVV
Ray Dix	KF9BG
Adriana Dix	KB9DUR
Mary Olson (guest)	KA9ACE
Dave Olson	N9JQU
Mike Pagel	KA9LAQ
Bob Baird	W9NN
Paul Nelles	K9DB
Joe Mengal	KA9WEQ
Mike Urban	KB9GXV
Mike Eiden	WD9JID
Gene Kroll	KE9MA

Debra Kroll
Mary Eiden
Scott Howe
Brian Howe
Ron Howe
Joe Omernik

N9EIL
KA9FAS
Harmonic of NJ9H
KA9YJJ
NJ9H
N9CGV

After the State-of-the-Treasury report, the meeting moved on to the agenda items.

Mike, KA9LAQ, gave us an update on the intermod problems we have been having with the .67 repeater (.64 in Wausau has the same interference). It seems that a paging service, with a tower in Bonduel, is on a frequency that is interacting with the video signal of Channel 7 TV, and is doing unwelcome things on two repeaters. Mike outlined a plan for documenting the problem, involving monitoring the frequency (ies), taping the interference, and keeping a log of these activities.

A very lively debate erupted when it was proposed that the club make a direct reference to computers in our Swapfest ads. After several minutes of debate on the subject of giving computers equal billing with the swapfest, it was decided to contact various people who deal with computers to get some input from their point of view to see if

November 1991 • Badger State Smoke Signals 13
computer vendors would be interested in participating. Also, an invitation was extended for interested parties to come forward to accept the challenge of developing a computer aspect (promotions, securing vendors, etc.) to the swapfest. This issue is far from resolved, and will surely be a topic in the future.

Mary, KA9FAS, presented us with a list of local eating establishments that would be available for our annual banquet, their menu offerings, and prices. After some discussion, it was decided to have the banquet at the Blue Top again this (next) year. Final costs have not been set at this time, but should be under \$9.00. Anyone interested in making early reservations may get in touch with Mary either by phone, on one of the local repeaters, or on packet (either W9IHW or WD9JID). It is still early, but there are many items to be taken care of that are made easier if Mary has a tentative head count to work from.

Ray, KF9BG, is considering painting a club trailer, and came before the club for ideas on how to paint it. After a short discussion, it was decided that he should paint it whatever color he has the most of when he starts the project.

Paul, K9DB, informed the club of upcoming testing sessions in the area.

Frank, W9BCC, reminded us that there is another balloon-carried repeater launch in southern Wisconsin this month, and referred interested persons to the September BSSS for further info.

Following a short break, Eugene Jacobs, from the Linwood Springs Research Center, gave a talk on the studies being done on hawks and owls, and on various methods of catching them. Combined with various comments and observations from the peanut gallery, his talk was very informative and entertaining.

Our next meeting will be on November 13, 1991, in room A-109 of the U.W.S.P. Science Building. Talk-in will be on the 146.985 repeater.

73 DE KA9ACE

Taylor County Area Amateur Radio Club

Rolland Walty, W9LEE, Secretary

W4117 Highway 102 • Westboro, WI 54490

Next regular meeting: November 14 at 7 p.m. in the Taylor County Courthouse Annex, 2nd and Ogden, Medford, WI.

Two-meter net Wednesdays at 8:30 p.m. on the 147.15 repeater. All stations welcome!

Minutes of October 10 Meeting

Meeting was called to order at 7:08 p.m. by President N9GEN. Attending were W9LEE, N9LHY, N9FZD, W9QHI, KE4FE, N9GEN, N9IDW, KB9BLV, and N9GHZ.

Minutes of September meeting were read and approved. The treasurer being absent, there was no

treasurer's report.

N9GHZ reported on the October 5 VEC test session in Medford. Congratulations to N9IDW, who passed both code and theory for Extra Class!

Motion to sponsor another test session was approved, date to be chosen at the November meeting. It was voted to reimburse N9GHZ for additional phone calls he made to arrange for the October 5 test site. He also received a vote of thanks for his efforts in arranging for the test session. Thanks also to the Tomahawk VEC team for their help.

The autopatch 911 difficulty was discussed, as well as the quoted price for a factory upgrade to the autopatch, which was considered unacceptable.

N9GHZ reported no word on the Motorola units to be tried on the repeater.

A reply was received from NCTI to our request for tower space for a link antenna. Apparently they will approve it if antenna specs are satisfactory. Motion was approved to check with ARRL on legality of 2-meter link to another repeater.

The first meeting of the club-sponsored Boy Scout Explorer Post is set for October 19.

Motion to pursue tax-exempt status for the club was approved.

Motion also approved to try for an Adopt-A-Highway segment on Highway 64, since previously sought segment on Highway 13 is already taken.

No other business. Meeting adjourned at 8:45 p.m.

Rolland Walty, W9LEE, Secretary

WNA PICNIC FOOD FACT: K9KSA was heard to say at the WNA Picnic in Baraboo September 7, "You are what you eat," while eating a ham sandwich. W9CBE, sitting across from him, looked a bit puzzled, and noted, "That's funny, cause I have a bologna sandwich!"

—Rich Regent, K9GDF

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703-2219

Minutes: Meeting of Oct. 8, 1991

The meeting was opened by W9NW in the absence of President Bill Jablonske, W9NNS. Secretary's and treasurer's reports were read and approved.

There still appears to be a possible conflict as to the 1992 Hamfest date, but July 18th has been secured at the Chippewa Fairgrounds.

Andy, KA9HWN, reported on the trailer project, and obtained a number of volunteers for a work party on the day following the meeting.

Mention was made of the formation of an Amateur Radio club at South High School, and an appeal was made for donation of used gear by individuals, or a sum of money by the ECARC. No action was taken.

N9LIJ, N9ISN, and N0PGT volunteered to act as nominating committee in the selection of candidates for club offices, their list to be presented at the November meeting.

There was some discussion regarding pro-rating the dues for members joining during the middle of the year. It was decided to leave matters as is.

The local CATV company, Cablevision, donated a deep-cycle battery for the 31/91 repeater backup. The club expresses its thanks for this, and the secretary is directed to send a letter reflecting same.

The November meeting will also be at the Parks and Recreation Building. Lunch Committee: KB9-EUP, WU9R, and W9BAR.

Respectfully submitted:
W9NW, Secretary

WA9ZCO: Bash 'em, Crash 'em, and Smash 'em



Pictured above is Marc Winzenried, WA9ZCO, of Dorchester, Wisconsin, with his 1978 Dodge Aspen. Marc drove the car, formerly owned by Mike Schoenfuss, N9GHZ, of Abbotsford, WI, in the annual demolition derby at the Central Wisconsin State Fair in Marshfield on Labor Day. Although it is not visible in the photo, Marc's Amateur Radio call sign is prominently displayed across the hood of the car. Marc used a 2-meter handheld, in conjunction with a headset and a VOX mike built into his helmet, to keep in touch with N9GHZ in the

spectator area, and with his "pit crew," Scott Young, N9FZS, of Colby, Wisconsin. Marc plans to do it all over again next year.

*- Photo and story by Mike Schoenfuss, N9GHZ
P.O. Box 401, Abbotsford, WI 54405-0401*

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This QSO was Ad-MIR-able!

It was a rainy Friday afternoon on October 4th, when the XYL, WB9MFC, said we were out of eggs so, being the nice guy that I am, I gave up my quest for the elusive U5MIR (a-board the Soviet space station MIR) on 145.550 and jumped in the car and went to the store. Marilyn, who has been working almost day and night on a quilt she promised would be ready for my October 9th birthday, continued sewing and listening to her HF rig, along with a scanner which scanned away in the background.

As most of you U5MIR chasers know by now, a packet message dated 02 October 1991 at 12:20 UTC announced that "this morning the exchange crew left earth, and the ship will be docking with MIR on the 4th of October. On board the ship is Alexander Volkov (U4MIR), Sergey's 'old' commander, who will be replacing Anatoly Arcebarsky (U7MIR)."

While returning home with the eggs, I heard Marilyn talking with Dave, WB9GBG, on the Waupaca repeater, proudly announcing the new DX she had just worked.... on the 2-meter band. Yes, Marilyn heard Alexander (U4MIR) on the scanner, calling nine-land, ran into the radio room, turned on the 2-meter rig, and gave him a call on 145.55. To her surprise, he came back to her, they exchanged reports, and Marilyn's QSL card is on its way to Alexander's manager. Her contact was recorded at 1:34 p.m. local time.

If Marilyn wasn't Alexander's first contact from space, we suspect she most likely was his first female contact.

I guess you just have to be in the right place at the right time. It probably doesn't hurt to use a female voice, either. (HI!)

*- Carl Lassanske, N9JXB
Route 3, Box 449
Wautoma, WI 54982*

P.S. I'm still trying for a contact with MIR!

- Carl

715-644-2112

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Rich, N9MEH

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

Meeting of Oct. 14, 1991

The meeting was started at 7:30 p.m. by President Dave, WB9USI. The minutes from the September meeting were read by Treasurer Dave, WB9ZIO, and approved. With the secretary on vacation, they were never mailed in to the *Badger State Smoke Signals*, so an apology to our readers may be in order.

The November meeting will be technical in subject and is being finalized. The December meeting will be a combined tour of the Wustum Museum and Pot Luck. Details are being worked on by Bill, W9OVZ, and will be announced in the November newsletter. It will be open to relatives and ham friends. The Treasurer Dave, WB9ZIO, gave a report on the financial situation. Current balance is \$348.40.

Old Business

Gene, WB9ZKY, reported that we don't have any spare tubes for the Swan transceiver, and volunteered to find some at an upcoming ham fest in time for the next Field Day.

Bob, W0WLN, requested that we get a nominee from the Racine Megacycle Club, so there are candidates from all local ham clubs. The winner will be announced at the spring Ham Dinner.

New Business

Dan, KA9OIL, announced the upcoming Friday's Fox Hunt. Last month 7 teams/cars took part, and

the latest standing is: First place with 29 points is our technical expert and repeater caretaker Gene, WB9ZKY, who has as assistant his wife, Bonnie, WB9ZKX. Close seconds are Bill, WU9P, and Dave, KC9NG, both with 27 points.

President Dave, WB9USI, announced the upcoming Jamboree On The Air, with scouts participating at Camp O'Dakota near Burlington. Dave will be there and will, with the scouts' help, set up the radio stations with packet, antennas etc. The scouts are working on their radio badges.

Dave also brought up the next spring banquet. We still have \$114 from last year which can be used. The committee consists of Cheryl, WS9P, and Bill, W9OVC, and more volunteers as needed.

President Dave, WB9USI, also brought up the need for the next Novice class, and is asking for volunteers.

Cheryl, WS9P, who is teaching ham radio to some eleven students at Gilmore, is asking for some help in teaching, radios, antennas etc. She also wants help in setting up a radio display for students and parents at Red Cross.

Bob, W0WLN, talked about an eight year old Novice.

Gene, WB9ZKY, talked about the upcoming Lakeshore meeting October 29. The repeater runs fine with the new emergency battery in place.

The club nominating committee was formed, and consists of Dan, KA9OIL; Bill, W9OVC; and Clarence, W9NBF.

The "Goodie Box" was given to Dan, KA9OIL. The meeting was over at 8:15 p.m. 19 members were present.

After the formal meeting President Dave,

Events Calendar

*Courtesy of
the Racine Megacycle Club*

Nov 9	Hamfest at Serbian Hall
Nov 11	Megacycle Meeting Program: Technical subject
Nov 15	Fox Hunt
Nov 18	QCWA meeting
Dec 1	Kenosha Ham breakfast
Dec 7	ARRL testing at Red Cross
Dec 9	Megacycle Meeting Program: Wustum Museum, pot luck
Dec 13	Fox Hunt
Dec 15	QCWA Christmas party
Jan 11	Hamfest at Waukesha
Jan 26	Hamfest at the Odeum
Apr 12	Hamfest at Rockford

WB9USI, showed various drug paraphernalia, which he brought with him in the now famous RAP van, which was also open for inspection in the parking lot. We also got to see an actual drug bust on video.

The donated T-shirt was given to Treasurer Dave, WB9ZIO.

President Dave, WB9USI, talked about the new seat belt law.

Bob, W0WLN, showed a number of code keys that he uses or lends out to Novices, etc.

The meeting was over at 9:00 p.m., and most present met at the restaurant for coffee and dessert.

Note: Everyone is requested to pay for the Megacycle/BSSS membership for November, December and January, which comes to \$11.50. The Lakeshore dues are also due for 1991 and amounts to \$15.00.

*Respectfully submitted:
Arne, KA9ZPY, Club Secretary*

News Briefs

Shuttle Astronauts Add Two to Ranks of Amateur Radio

Two more NASA Shuttle astronauts have passed their amateur exams. Brian Duffy and David Leestma, both scheduled to fly STS-45 in March, 1992, have passed the Technician/Morse exams and await call signs. As in the past, organizers of the Shuttle Amateur Radio Experiment (SAREX) will ask for FCC waivers to allow the pair to operate from space (FCC rules allow "space operation" only by Extra class amateurs).

Flight STS-45 will fly a high inclination orbit, as did the pioneer Amateur Radio shuttles of Owen Garriott (W5LFL) and Tony England (W0ORE), and so will be more accessible to amateurs outside the tropics. As a result of the increased coverage allowed by these orbits, some general operating is

hoped for. Some contacts with schools also are planned, and details will be available as the launch date approaches.

Farther in the future, several more ham-astronauts are tentatively scheduled to fly again. They are: Jay Apt, N5QWL (Sept. '92); Jerry Ross, N5SCW (March '93); Linda Godwin, N5RAX (Oct. '93; and Ron Parise, WA4SIR (Sept. '94).

- The ARRL Letter, 9/19/91

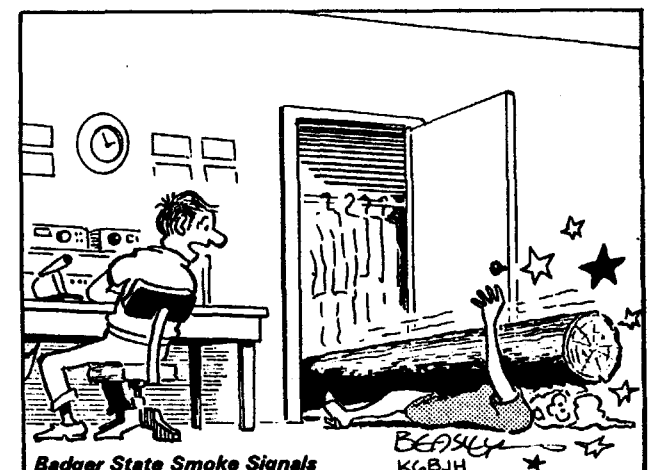
Where There are Firefighters....

Don Evenson, K9JYX, is a firefighter with the Baraboo Volunteer Fire Department. He attended a fire inspector's school in Wausau during the week of October 21. Don and another firefighter left their hotel to run some errands and.. you guessed it.. when they returned, the hotel - with more than 300 firefighters in temporary residence for the school - was surrounded by fire trucks. A fire had begun in the hotel's basement. The fire was minor, and was quickly extinguished.

Vegetation: Required Attire?

Traffic handler Jim Caldwell, WB9YPY, says, "I went to visit the Sullivan, Wisconsin Weather Station, and they didn't know me from Adam." K9UTQ replies, "Didn't you have your fig leaf on?"

- Rich Regent, K9GDF



Yellow Thunder Amateur Radio Club

Duane Grotophorst, KA9HKL, Secretary

K9ODK
WB9FDZ

E5767 South Line Road • Loganville, WI 53943



Upcoming meeting dates are:

Wednesday, November 13	Room 12
Thursday, December 12	Room 24

Art Kleefisch, W9WSS
Harry Mayland, K9FFT
Jim Decker, WB9UQT
Tom Thomson, N9LLF
Kevin Perry, N9LME

Baraboo
Baraboo
Baraboo
Sauk City
Sauk City

Minutes of October 15 Meeting

The meeting was called to order by President Art Kleefisch, W9WSS, at 7 p.m. The following members and guests were present:

Raymond Matlosz, N9MLZ	Reedsburg
Duane Grotophorst, KA9HKL	Loganville
Ken Johnson, K9DZG	Mazomanie
Jim Paul, N9LKY	Merrimac
Harold Reif, KA9YQP	Baraboo
Harry Westlund, K9EHJ	Baraboo
Tom McCann, KB9HAB	Baraboo

Last month's minutes were approved, with the following correction: Charles Tilton's call should have been listed as N9MMF, not N9MMV. The treasurer's report was accepted, showing only minor changes from last month.

Discussion turned to future programs, with one idea that we could have a program by the Civil Air Patrol, as offered by Matt Helt, WA9EKQ, of the CAP. We would like such a program, and will likely have it early next year.

Jim, WB9UQT, provided me with a list of hams in Sauk County that will be presented to the Sauk County Emergency Government director some time this month.

Tom, N9LLF, made some suggestions for some kinds of activities that the club can be doing, such as providing communications for the motorcycle rally in Sauk City that is held yearly, and for other events.

Art, W9WSS, brought up the suggestion that the meeting start time be shifted to 8 p.m. to be closer to the actual meeting start time, to allow prompt opening of meetings.

Art also brought up the idea that we should look at the club's constitution to see what changes should be made to it, if any, so that it is more responsive to the actively attending members' wants as to what the club should be doing, so that the club stays interesting and viable. With a large portion of the recent meetings' attendees being new members/hams, we would really be interested in their input on this matter.

Buck Nite winner was Tom, KB9HAB; he will probably take a day off work and enjoy the big prize of six bucks! Next month, the prize will be starting over at one buck.

The meeting was adjourned at 8:30 p.m.

After the meeting, a video tape of a recent *Nova* program about the history of radar during World War II was shown.

Respectfully submitted:
Duane Grotophorst, KA9HKL, Secretary

Northern Wisconsin Radio Club

Steve Hart, KA9OMC, Secretary

- Since 1923 -

Route 1, Box 54 • Knapp, WI 54749



Greetings, NWRC members and guests.

The last meeting of the NWRC was held on October 22 in Menomonie.

This was the annual election of officers. Steve, NX9Z, nominated Kenny, KE9CS, for president; Rolin, KE9VA, for vice-president; and Steve, KA9OMC, as Secretary/Treasurer. The motion carried, and this will be the club representatives until October, 1992.

Steve, KA9OMC, gave the club minutes. Balance at this meeting was \$114.

We have worked out a FAX number to Baraboo to get our club's minutes direct to the *BSSS* editor for those months when print deadlines run close.

Membership cards are being printed, and will be ready in one week.

The *Who's Who* book will be ready for the November meeting, and orders can be placed at that time.

Attendance at this meeting was 12.

Don, WD9IY, is back home from the hospital and making all the meetings.

The *Smoke Signals* will not be sending renewals to the subscribers, but will send them to the club secretary. We will notify you when they are due.

A presentation of the *Hams in Space* video was given after the meeting. The film was about an hour long, and consisted of many years of amateur activity as it pertains to manned flight. Our thanks to Bill, N9HNI, for doing the taping, and to Kenny, KE9CS, for supplying the player.

The Field Day results are in the latest *QST*. Look for NWRC near the end of the list. Look under 5A on page 107 of the November issue.

The next meeting of NWRC will be November 26 at the Peppermill Restaurant in the Thunderbird Mall in Menomonie. Meeting time is 7:30 p.m.

We will attempt to contact persons involved in the SET drill held at Colfax on October 12 to discuss the activity, and what was learned about being prepared for disaster.

Steve Hart, KA9OMC
Secretary/Treasurer

Snow Depth Measuring: It Might be a Monumental Job!

The Wisconsin Nets Association group does have a sense of humor. At their hot and sunny summer annual meeting, an important was discussed: methods of measuring snow depth. WB9YPY says, "I stuck four aluminum T-squares in the ground in my back yard for measuring snow depth." K9UTO remarks, "Your yard must look like a cemetery!"

- Rich Regent, K9GDF



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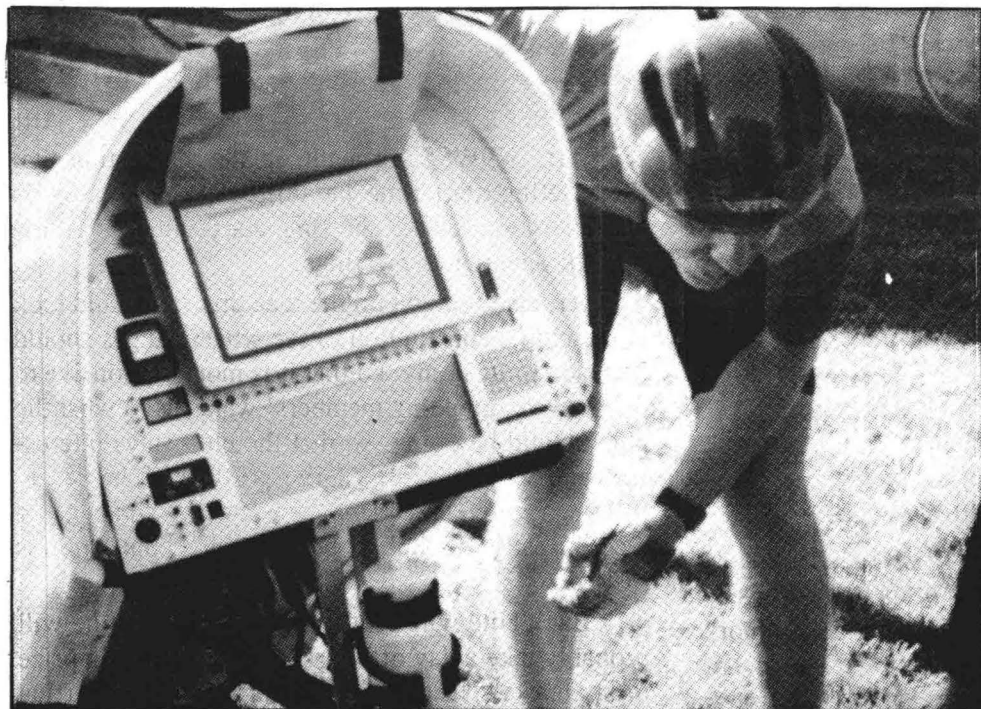


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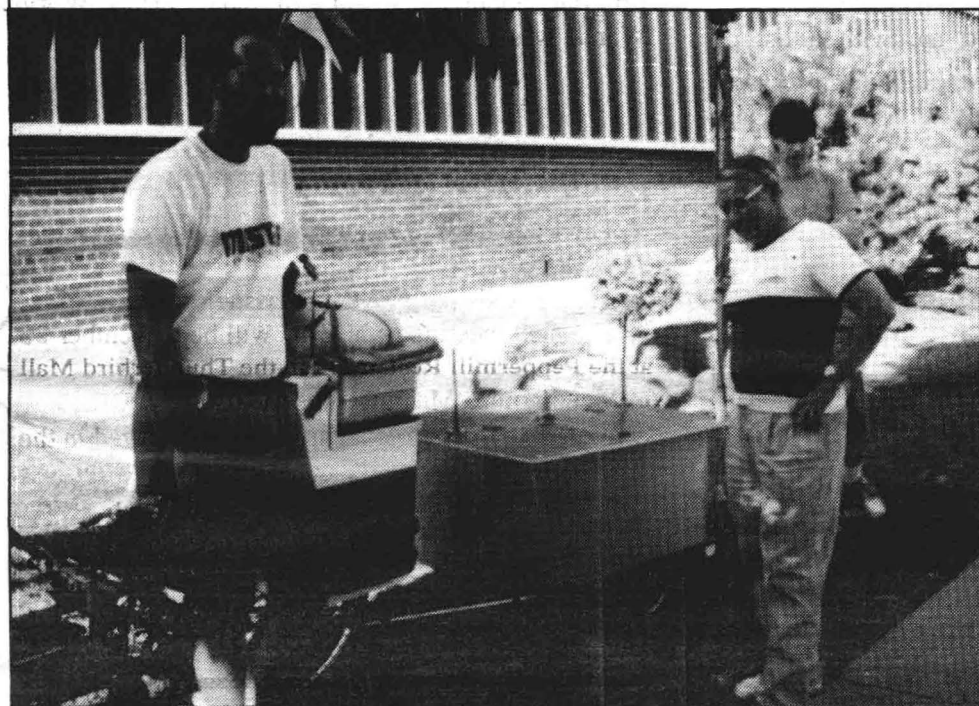
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Steve Roberts, N4RVE: Million-Dollar Biker



Here is the front of Steve's bike, showing the computer panel and all the controls. Steering the bike is done from below the seat.



Steve is shown here at left, with Arne Moxness, KA9ZPY, the author, looking at the large box on the rear of the bike. The box contains solar panels for battery recharging, with Steve's personal belongings stowed inside. Also mounted on the box are an antenna on a mast (band not known), a 2-meter antenna, and an antenna for Steve's cellular telephone.

- Story by and photos courtesy of
Arne Moxness, KA9ZPY, Secretary, Racine Megacycle Club

Advertising Needed

Badger State Smoke Signals depends in large part on advertising to keep our bills paid. Our ad rates are affordable but, since we have no advertising salesperson, it is "catch as catch can" as far as ad sales are concerned. We are not currently publishing enough advertisements. If you are interested in advertising in, or in selling ads for, *Badger State Smoke Signals*, please write or call either Ken Ebner (Chairman), K9EN, or Jim Romelfanger, K9ZZ (Editor). See the masthead on page 2 for addresses and telephone numbers.

"Business Communications" Position Clarified by Commission

Continued from front page

that form) was released to persons in the private sector without Haller's knowledge. He had edited the speech draft extensively before using it, precisely because of the inaccuracy of the draft relative to the spectrum issue.

Still concerned about misinterpretation, Haller on October 16 indicated to the League that while the staff draft of his speech did include reference to excess capacity, he was sensitive to the fact that the term might be misinterpreted and he believes he edited out the term. He pointed out, however, that the term is a standard term of art in the Bureau and he might have used it at some point, perhaps even in response to a question. The term, as used by the Bureau, does not refer to an amount of spectrum; rather, it refers to channel capacity. He gave the example of a repeater that during drive time might not support other uses, but that could be used to support a parade at mid-day. He also indicated that he rarely follows the printed text of a draft speech and did not in this case. The draft speech that was released by a staff member was just that - a draft.

There *have* been discussions about amateur "business" communications - the amateur community wants to be of service to its neighbors, and Haller has recently told League officials that there is good reason for increased public service communications which would not adversely affect the service.

Furthermore, a continuous stream of questions from amateurs to the Private Radio Bureau of the FCC continues to probe the limits of permissible communications in the Amateur Service. These questions indicate a lack of clarity in the rules, which FCC would like to clear up, if possible.

For the most part, the questions involve either nonemergency public service or personal affairs in which a business entity is somehow involved (e.g., ordering a tow truck for a disabled motorist or the over-publicized "ordering a pizza").

While there may not have been more of these questions this year, there *has* been more publicity - and hence more awareness - about such questions. For example:

- The "900 number" incident in which packet bulletin board operators were cited for allowing a message urging use of such a number to proceed through their BBS;
- The Iditerod race in Alaska with consequent discussions about checkpoint reporting, ordering dog food, and so on;
- Messages to an ARRL volunteer section manager, some portion of which might eventually appear in *QST*.

The ARRL, in discussing these matters with the Private Radio Bureau, found there was a mutual agreement on two key points:

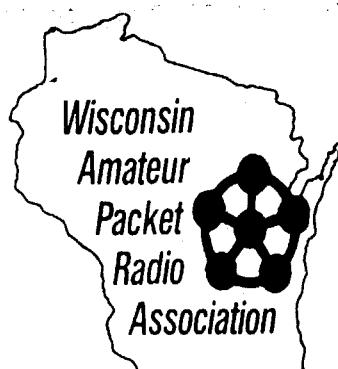
- 1) That strong rules against business messages in the Amateur Service remain necessary to prevent exploitation of the service for nonamateur purposes;
- 2) At the same time, it is apparent that the rules being applied might be more strict than necessary. This has led to exchanges of proposed texts which might permit more flexibility in public service and in personal communication, while still prohibiting business communication as such, such as:

- Communications for hire;
- Any communications in which the control operator had an interest;
- Communications for one's employer or one's own business - which would be strongly and specifically prohibited.

At the ARRL National Convention, PRB Chief Haller, by choosing Section 97.113 as his topic, opened the discussion of possible changes in these rules to the whole community, a desirable step on the way to any possible rulemaking.

What comes next? If there is to be any rulemaking to liberalize amateur public service communication, it will have to be the subject of a Notice of Proposed Rule Making (NPRM) in accordance with the Administrative Procedure Act, which requires "Notice and Comment." All interested parties would have opportunity to submit their views during the process, and the League's ultimate position will take into consideration the views of its members.

- *The ARRL Letter*, October 17, 1991
(Published by the American Radio Relay League,
225 Main Street, Newington, CT 06111)



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

William Schroeder, W9ZBD
4247 Forest Point Drive, Rhinelander, WI 54501

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

LET'S MARK OUR CALENDARS....AND SET OUR WATCHES
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A STATEWIDE WAPRA MEETING NOV. 16
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MARK YOUR CALENDARS FOR THE WISCONSIN AMATEUR PACKET RADIO ASSOCIATION MEETING IN STEVENS POINT ON NOVEMBER 16 (SATURDAY) FROM NOON TILL FIVE.

UW CENTER (NEAR HOSPITAL ON FREMONT ST.
BEHIND OLD MAIN NORTH OF MAIN STREET.

THOSE WITH SPECIAL INTERESTS ARE FREE TO MEET ALSO, BUT THE MAIN MEETING IS FOR ALL PEOPLE INTERESTED IN PACKET RADIO IN WISCONSIN. IF YOU HAVE QUESTIONS PLEASE LET ME KNOW:

BILL W9NNS @ W9NNS.#CFL.WI.
715-723-4088 ANYTIME

NOTICE: THE MEETING WILL GET UNDER WAY SOMETIME SHORTLY AFTER NOON. (ignore earlier incorrect information on time of meeting)

MEETING TIME 12:00

WE WOULD ESPECIALLY LIKE TO SEE SOME PEOPLE FROM THE FOX VALLEY AREA.....

Good News & Bad News..

First the bad news.... On Thursday, 10/24/91, the Slinger node site got hit by lightning 2 times... The first shot took out the 4800 baud TNC & RF Concepts 100 Watt Amplifier & locked up 2 other TNC's... I put my spare UHF setup on line to get that link going again, but at reduced power & reset all the TNC's.. All appeared to be working OK & went back home to repair what I could.. When I got up in the morning, I found the 220 4800 baud link was again down & the 2400 baud link had changed frequency & the UHF link had gone down again... After repairing UHF radio & TNC, I went back out to the site & reset the 220 4800 baud TNC & reset the frequency on the 2400 baud link & put the UHF node back on line... I am now using a 30W in & 100W out RF Concepts amp with only 10 Watts out of the exciter now as the original Amps relays got fried.. But we are back in business with a slight interruption.. Your patience will be appreciated until I can get the UHF link back up to full power...

The good news is that I have added a 30 meter port to my BBS for forwarding NTS & personal mail only... This will allow my system more

time for sending & receiving bulletins on the 14.107 port & faster & better movement of mail into & from our area & will be able to move the mail directly to the proper state rather than relaying through 3 other BBS's on 20 meters...

73 es Tnx es Cul.... Dan.... WB9TYT @ WB9TYT

SBE CERTIFICATION FOR AMATEURS

The Certification Committee of the Society of Broadcast Engineers (SBE) has approved the recognition of amateur radio activities for certification credits.

Persons holding a valid Amateur Radio Extra Class license who meet the service requirement for employment in the broadcast or broadcast related industries, will be awarded Broadcast Technologist Certification upon application.

This is in recognition that the current licensing requirements for this level of the Amateur Radio Service demonstrate technical proficiency on par with the old FCC Second and First Class license examination.

Certification information and application forms may be obtained from the SBE national office in Indianapolis at 317-253-1640.

(From a September 13, 1991 SBE news release)

Editors note: Material for the Packeteer Column did not arrive from the Packeteer editor in time for inclusion in this month's BSSS. The above material was taken from WD9ESU BBS.

THE TEST POINT (continued from page 3)

MILWAUKEE RADIO AMATEURS' CLUB
MRAC/VEC

1991 examination dates:

TUESDAY EVENING : November 19 & December 17., 1991

SATURDAY MORNING: November 30, 1991.

TUESDAY DATES: At 6:30 p.m. at church, 11709 West Cleveland Ave., West Allis, WI. For Additional Information Contact; Jack Krause, W9JK, 1737 N. 116th St., Wauwatosa, WI 53226. (414) 774-6999 or Les Peterson, W9YCV, 9741 W. Howard Ave., Greenfield, WI 53228. (414) 321-4745.

SATURDAY DATES: 8:30 a.m. at the Wauwatosa Savings and Loan, 7500 West State St. (Lower level) Please arrive promptly so testing can be completed by 12:00 noon.

Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

Nov. 16, & Dec. 21, 1991

Jan. 18, Feb. 15, Mar. 21, & Apr. 18 1992.

May 2, 1992. Ozaukee swapfest. (Ozaukee)

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walkins are welcome. CW waiver forms are available. Please send a request with an SASE prior to taking an exam, so it is ready when attending the session. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

KAUKAUNA, WI

November 3, 1991

Held at the FOXCITIES HAMFEST 91, Starlite Club on Hwy. 55, North of Kaukauna. Exams begin at 9:00 a.m. Contact Larry, KD9IA at (414) 788-3823, or Don, NB9J at (414) 766-3886.

MENOMONIE WI - ARRL/VEC

Saturdays: Nov. 2, 1991 and Mar. 28 and Nov. 7, 1992.

The Northern Wisconsin Radio Club administers exams from 9 to 11:30 a.m. at the Westconsin Credit Union Building, Lower level conference room, 444 S. Broadway, Menomonie, WI. Use front entrance of building. Walkins are accepted only to extent of available exam materials.

Contact: Jim Ley, NX9F, (715) 235-3998 (H); or (715) 232-1397 (O).

ONALASKA, WI

November 11, 1991

Sponsored by the Riverland ARC. Held at the

Onalaska Community Center, 515 Quincy St. All exams start at 7:00 pm. Preregistration recommended. Contact: Rick Williams KV9U, 524 Troy St., Onalaska, WI 54650. (608) 783-8028. or Dick Low, KQJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176 (After Apr. 5th.)

MARSHFIELD, WISCONSIN

1991 dates: Nov. 9, 1991

1992 dates: Jan. 11, Mar. 14, May 9, Jul. 11, Sep. 12, Nov 14.

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wallonnie Dr., Marshfield, WI 54449.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at 9:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

DUBUQUE, IOWA - ARRL/VEC

Exam dates for 1991 are: December 7.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 a.m. at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th Street. For more info, contact Mike Jozefowicz, NSOU, 2735 Hickory Hill, Dubuque IA 52001, or call Mike at (319) 582-8563. Talk-ins are on the 147.84/24 and 147.63/03 repeaters. -- (Thanks Art Evans, KA9KLZ)

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, 5006 N. Second St., Loves Park, IL 61111. (815) 877-6768.

ARRL/VEC EXAMINATIONS

Test Date, City, Contact Phone, Contact Person

WISCONSIN

11/02/91, Menomonie, 715-836-3980, Thomas King
11/02/91, Racine, 414-658-8390, William Firchow
11/03/91, Kaukauna, 414-788-3823, Larry Siebers
11/13/91, Schofield, 705-536-4594, Tony Hermanek
12/07/91, Racine, 414-658-8390, William Firchow

EASTERN-IOWA

11/17/91, Des Moines, 515-967-3890, Jim Snapp
12/07/91, Dubuque, 319-582-8563, Mike Jozefowicz
01/19/92, Des Moines, 515-967-3890, Jim Snapp

NORTHERN-ILLINOIS

11/09/91, Dixon, 815-376-5444, Lavern Johnson
11/09/91, Oak Forest, 312-247-0650, William Koltz
11/16/91, Bolingbrook, 708-739-6015, Robert Stevens
11/21/91, Park Ridge, 708-359-7378, Sanford Franzblau
12/14/91, Oak Forest, 312-247-0650, William Koltz

UPPER-MICHIGAN

11/02/91, Menominee, 715-735-7397, Paul R Drees
12/07/91, Marquette, 906-249-3837, Richard E Schwenke
12/28/91, Corunna, 517-288-6678, Basil Winters

MINNESOTA

11/04/91, St Paul, 612-739-0279, Ralph Andrea
11/16/91, St Paul Park, 612-459-8678, David Harrell
11/20/91, Grand Rapids, 218-263-4160, Gregg Mihelich
12/02/91, St Paul, 612-739-0279, Ralph Andrea
12/07/91, St Paul, 612-222-7253, John Bellows
12/14/91, Alexandria, 612-763-4479, Perry Johnson
12/21/91, St Paul Park, 612-459-8678, David Harrell

MINNESOTA TESTS

November 4, 1991 St Paul, MN
November 9, 1991 Bloomington, MN (BARC)
November 16, 1991 St Paul Park, MN (SEMARC)
December 7, 1991 St Paul, MN (SPARC)
December 14, 1991 Bloomington, MN (BARC)
December 21, 1991 St Paul Park, MN (SEMARC)

Locations and contacts:

St. Paul Radio Club (SPRC)
St. Lukes School (cafeteria)
1065 Summit Ave.
St. Paul, MN
contact: Jay Bellows (612) 222-7253

Bloomington Amateur Radio Club (BARC)
Creskide Community Center
98th and Penn Ave. So.
Bloomington, MN
contact: Art Putt (612) 881-7181

SE Metro Area Radio Club (SEMARC)
St. Thomas Aquinas Activity Bldg.
920 Holly Ave.
St. Paul Park, MN
contact: David Harrell (612) 459-1647

St Paul, Ralph Andrea, (612) 739-0279
Brooklyn Park, Arthur Jensen, (612) 888-6187

The above Minnesota test are listed as a help to readers near or traveling thru the area. If you are interested in any of these, please save this listing as we may not always have space available to list them. Thanks to "Ground Wave" for the above information.

If you plan on taking any of the exams, it is suggested that you contact the sponsoring organization as the date nears to find if there have been any changes in dates or locations.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

AMATEUR RADIO EXAMINATION OPPORTUNITIES

The following test session information is provided by the ARRL/VEC.

AFTER THE EXAM - HOW LONG WILL IT BE BEFORE MY LICENSE ARRIVES?

If you've recently passed your initial examination for an Amateur Radio license, or if you've just upgraded, please accept our warmest congratulations! Now that you've passed the test, receiving your license in the mail is the next step. Since the FCC's current license processing time is at about seven weeks, and since there can be additional time required within the volunteer examiner system of two weeks or so allowing your VE Team and VEC (if for Technician class or higher) time to process your application, your license might not arrive for up to eight to ten weeks. To keep your wait for that new license or upgrade as short as possible, we are taking the following steps to give you the fastest possible service. We have begun providing our VE Teams with express OVERNIGHT mailers for the return of applications from ARRL/VEC exam sessions to us at the VEC—and we at the VEC have begun sending our daily packages to the FCC's Licensing Facility via an express OVERNIGHT service. We are also encouraging our VEs, and imposing the same emphasis upon ourselves, to process examination packages as quickly as possible to expedite your license. Having implemented the above procedures, the ARRL/VEC wants your wait for your new license to be as short as possible.

If you have any other suggestions about the program, or services we provide, please feel free to contact us.

I'm always on the lookout for Amateur license plates, and when a GR8 went by me on a Pennsylvania car, I spent some time wondering just where in the United Kingdom that was, and why it was on an American registration. Then I realized what GR8MOM was really indicating. Some days it just takes me a little longer.

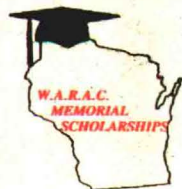
K1PZU, Tom Carte of Wilkes-Barre, PA.

FOR SALE: Yeasu station, FT707 10-80 meter full solid state transceiver, matching tuner, hd-power supply and external speaker, all manuals, factory serviced and aligned, modified for MARS, xtals included to undo mod. Consider offers, trades, can operate on air, \$700.00. Will not separate. Tom KE9UE, (715) 356-6410.

FOR SALE: Kenwood CW filter YK-455C-1, fits TS-140 \$69.00. Leather case and wave magnet for Zenith R3000 Transoceanic. Stereo speakers, mini-mus-35 compact, work super with general coverage receivers. Drake low-pass filter, 1KW.

WANTED: Kenwood TS-130V, TR-751A, R1000, Yeasu FRG-7, MH-1b8, FR-101. Terry Witt, AA9BA, 9145 Ivy Lane, Berlin, WI. (414) 685-5018.

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November 3, 1991

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Don Baker
621 W. 7th St.
Kaukauna, WI 54130
414-766-3886

EXAM INFO:
Larry, KD9IA,
414-788-3823, or
Don, NB9J,
414-766-3886

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